



# 2021-2022 Catalog



[tacomacc.edu](http://tacomacc.edu)

# Contents

## Welcome to TCC

TCC at a Glance.....	1
The College Campuses .....	3
2021-2022 Instructional Calendar .....	5
2022-2023 Instructional Calendar.....	6

## Enroll in College .....7

Start here.....	7
Admission to TCC.....	7
Residency .....	9
Your Academic Success .....	10
Enrollment .....	12
Schedule Changes.....	13
Tuition and Fees.....	14
Financial Assistance .....	15
Refund Policy.....	17

## Students.....18

Support for YOU.....	18
Student Services .....	19
Other Services.....	21
Student Policies and Notices.....	22

## Instruction.....27

Learning Outcomes.....	27
Degree Learning Outcomes.....	27
Library and Learning Innovation .....	28
Learning Formats.....	30
College Degrees.....	31
Instructional Policies.....	33
Grades and Academic Policies .....	36
Honor Societies .....	40
Graduation .....	40

## College Transfer.....41

College-Level Education (Transfer) .....	42
Associate of Arts .....	45
Associate of Arts with Specialization .....	48
Associate of Arts in Biology .....	64
Associate of Arts in Business.....	65
Associate of Arts in Computer Science .....	67
Associate of Arts in Music .....	69
Associate of Arts in Pre-Nursing .....	73
Associate of Science Track 1 .....	71
Associate of Science (AS-T1) with Specialization .....	75
Associate of Science Track 2 .....	79
Associate of Science (AS-T2) with Specialization .....	81
Associate of Science in Bioengineering and Chemical Engineering.....	85
Associate of Science in Computer and Electrical Engineering .....	87
Associate of Science in Materials Science and Manufacturing Engineering .....	89
Associate of Science in Civil and Mechanical Engineering.....	91
Associate in General Studies.....	93
Approved Distribution Course List .....	94
Distinction Pathways .....	99

## Applied Bachelor Degrees at TCC.....102

Applied Management.....	103
Human Resources Management Certificate.....	105
Project Management Certificate .....	106
Health Information Management.....	107
Community Health .....	109
Community Health Paramedicine .....	111
Community Health Respiratory Care .....	113
Community Paramedicine Certificate.....	115
Critical Care Transport Specialist Certificate .....	116
Global Health & Cultural Competency Certificate .....	117
Tobacco & Nicotine Treatment Specialist Certificate..	118
IT Networking Information Systems and Technology.....	119

## Career Training .....120

Career Training Programs.....	121
Accounting.....	122
Allied Health .....	124
Business.....	125
Diagnostic Medical Sonography.....	128
Early Childhood Education: Emphasis on Children with Exceptionalities .....	130
Emergency Medical & Health Services .....	132
Health Information Technology .....	134
Human Services .....	136
Networking and Cyber Security .....	138
Nursing, RN Option .....	141
Nursing, Assistant Certificate.....	145
Paralegal .....	146
Radiologic Science .....	148
Respiratory Therapy.....	149
WCCW Horticulture, Floriculture & Organic Farming .....	151
WCCW Web Development .....	152

## Transitional Studies .....153

Program Learning Outcomes .....	153
Basic Education for Adults (BEaA) Programs.....	155
Adult Basic Education.....	156
Adult English as a Second Language .....	159
English for Academic Purposes (EAP).....	161

## Corporate Education.....164

Customized Training.....	164
--------------------------	-----

## Continuing Education.....165

Personal Enrichment Classes .....	165
Job Skills and Career Training .....	165
Online Non-credit Classes.....	165

## Credit Course Descriptions .....166

## The TCC Team.....238

Board of Trustees.....	238
TCC Foundation.....	238
College Administrative Staff .....	239
Faculty .....	241
Exempt Staff.....	245
Classified Staff.....	249

## Definitions.....252



Dear TCC Student,  
Welcome to TCC!

During these uncertain times, having a strong education is one of the best things you can do to prepare for a successful future. We will get you ready for the journey ahead, whether that is transferring to a four-year university, completing your high school diploma or seeking a new career with one of our professional-technical certificates. We can do this, together. Our College Catalogue is not an ordinary document; it offers valuable information about TCC, its academic and career programs, and guidelines and resources to keep you on-track. Take a moment to review this catalogue – it will help you plan for your future in one of our five areas of interest:

- Arts and Communication
- Business
- Health and Wellness
- People and Communities
- Science, Technology, Engineering and Math

Our structured and organized learning programs were designed with our students in mind. If you are new to TCC, a returning student or a student seeking a new career opportunity, we will support you every step of the way.

TCC is the community's college. We are thrilled you are part of our TCC family. We recognize this is an important investment of your time and resources, and we pledge that TCC will make this a fulfilling and meaningful experience.

Thank you for joining our community!

Ivan L. Harrell, II, Ph.D.  
President, Tacoma Community College

Tacoma Community College values diversity and is an Equal Opportunity Employer and Educator. Tacoma Community College provides equal opportunity in education and employment and does not discriminate on the basis of race, color, national origin, age, disability, genetic information, sex, sexual orientation, marital status, creed, religion, or status as a veteran of war. Prohibited sex discrimination includes sexual harassment (unwelcome sexual conduct of various types). Provides reasonable accommodations for qualified students, employees, and applicants with disabilities in accordance with the Americans with Disabilities Act and Federal Rehabilitation Act.

The following officers have been designated to handle inquiries regarding non-discrimination policies: Title II and Title IX Officer, Bldg. 12, 253-566-5050; Section 504 Officer, Bldg. 7, 253-566-6090.

NOTE: Information in this catalog is accurate at the time of publication. However, Tacoma Community College reserves the right to make appropriate changes in procedures, policies, calendars, requirements, programs, courses and fees. When feasible, changes will be announced prior to their effective dates, but the college assumes no responsibility for giving any particular notice of changes. Nothing included in this catalog should be construed to create any contractual rights.

# TCC

## Welcome to TCC!

### TCC gets students on the right path to a new career or degree

Students who enroll at the college enjoy intimate class sizes, diverse classmates and highly qualified professors. Of TCC's 144 full-time faculty, 99 hold master's degrees, 13 hold doctorates, and 23 hold post doctorates.

TCC students interact with students from local and international backgrounds, and have opportunities to participate in a variety of sports, clubs and activities. The college also offers strong student support services to help ensure student success.

#### **Mission**

As the community's college, we create meaningful learning, advance equity, and strengthen student and community success.

#### **Vision**

We are a premier community college where all students, faculty, staff, and community members are welcomed, appreciated, and valued. We engage students where they are, leading to equitable opportunities for success in learning, life and work. We foster vibrant, productive partnerships that benefit our students and strengthen our community.

#### **Values**

The college promotes student success by embracing core values of:

- Agility
- Community
- Equity, Diversity and Inclusion
- Excellence
- Integrity
- Responsibility

#### **Educational Options**

Since 1965, we've supported more than 500,000 students in discovering their passion and preparing for fulfilling careers. Students can pursue degrees or receive career training for affordable tuition at convenient locations during the day, evenings, weekends or online. Students can choose:

- **Bachelor Degrees**

TCC's Bachelor of Applied Science (BAS) degree builds on the knowledge and skills learned in the completion of an associate degree.

- **College Transfer**

TCC offers you a start on your four-year degree, with numerous degree transfer programs designed to meet the criteria of your next university.

- **Career Training**

TCC's certificate and degree programs provide training for high demand careers in business, health and professional services.

- **Transitional Studies**

Students in these programs can improve their basic reading, writing and math skills; earn a high school diploma or job-ready certificate; or study English for Academic Purposes (EAP). Classes support immigrants and refugees from many countries and ethnicities.

- **Continuing Education**

TCC provides classes to meet individual needs for improved job skills, employment certification, or personal enrichment.

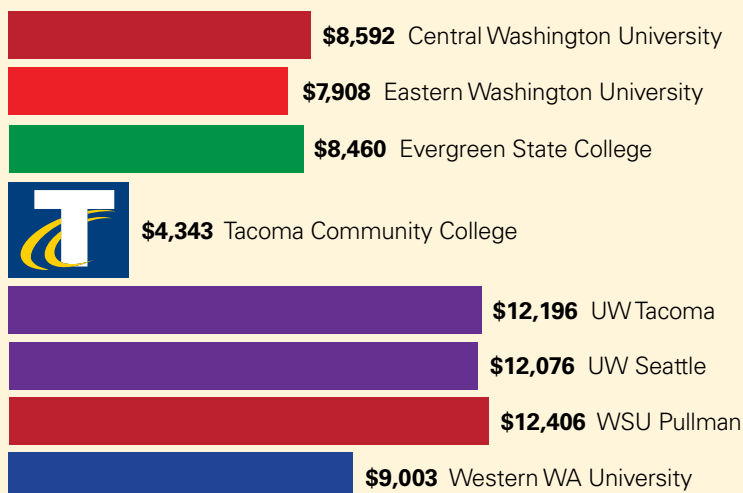
## TCC is a Smart Investment

While the cost of attending four-year colleges and universities is beyond the reach of many students, tuition at Tacoma Community College remains affordable, and TCC academic credits will transfer to most four-year colleges and universities.

TCC offers a variety of financial aid packages to help students reach their educational goals. In 2019-2020, the average TCC award - was \$5,938. Students received over \$13 million in grant and scholarship aid.

TCC's Financial Aid office offers limited work study awards to eligible students. Work study positions are posted on the TCC portal. The TCC Career Center posts new jobs each month and offers job search services to students.

### 2021-2022 Academic Year Tuition and Fees (may vary by institution)



## Student Life/Programs

The TCC student experience continues outside of the classroom. The Office of Student Engagement (OSE) empowers students to learn and succeed through relevant and comprehensive leadership development training, multicultural programming, student government, as well as student-led clubs and organizations. Each student has the opportunity to contribute to an involved and equitable campus culture.

OSE offers a variety of ways for students to become involved on campus including:

- Student Government/Student Senate
- Clubs and organizations
- Production events and activities
- Artist & Lecture series
- Student Ambassadors
- Paid student leadership positions
- Identity, Culture and Community leadership training
- The Collaboratory: a multi-use student space for critical dialogue and action
- Intramural sports

Visit the OSE upstairs in Building 11.

## Meet our Students

The diverse student body is one of Tacoma Community College's greatest strengths. Students of color comprise 34 percent of all TCC students.

TCC also hosts international students each quarter, whose global perspectives enhance the TCC experience.

Whether teenagers or members of the over-50 population, students are likely to find classmates like them in their TCC courses.

## Accreditation & Accolades

Tacoma Community College is accredited by the Northwest Commission on Colleges and Universities, 8060 165th Avenue NE, Suite 200, Redmond, WA 98052. Specialized curriculum accreditation recognized by the Council for Higher Education Accreditation and/or the U.S. Department of Education include the following:

- TCC's Nursing Associate Degree program is approved by the Washington State Nursing Care Quality Assurance Commission and is accredited by the Accrediting Commission for Education in Nursing (ACEN) formerly NLNAC, 3390 Peachtree Road NE, Suite 1400, Atlanta, Georgia 30326.
- TCC's Health Information Management BAS program has been reaffirmed through 2027 by the Commission on the Accreditation for Health Informatics and Information Management Education (CAHIIM).
- TCC's Respiratory Therapy program is accredited by the Commission on Accreditation for Respiratory Care (CoARC).
- TCC's Paramedic program is accredited by the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP) in collaboration with the Commission on Accreditation of Allied Health Education Programs (CAAHEP).
- TCC's Radiologic Sciences program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).
- TCC's Paralegal program is approved by the American Bar Association.
- TCC's Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on the recommendation by the Joint Review Committee on Education in Diagnostic Medical Sonography.

# The College Campuses

Tacoma Community College is a comprehensive state-supported institution serving more than 900,000 residents of the Tacoma-Pierce County area. The college's service district includes all of Tacoma and the Pierce County portion of the Olympic Peninsula and serves the Tacoma and Peninsula School Districts. TCC is one of 34 community and technical colleges in a state-wide system. The Tacoma-Pierce County area, located on Puget Sound between the Cascade and Olympic mountain ranges, offers residents and visitors a wealth of cultural and recreational opportunities. The city of Seattle is located 35 miles north of Tacoma.

## Tacoma Campus

**6501 South 19th Street, Tacoma, WA 98466 253-566-5000**

Located on a 150-acre site in west Tacoma, the Tacoma Campus houses 31 buildings including a computer center, learning resource center, art gallery, gymnasium, student center, children's center, auditorium and bookstore. The Tacoma Campus offers credit and non-credit classes.

## Gig Harbor Campus

**3993 Hunt Street NW, Gig Harbor, WA 98335 253-460-2424**

Located in a 13,000-square-foot facility, the Gig Harbor Campus provides educational services to residents and organizations in Gig Harbor and throughout the Peninsula. The Gig Harbor Campus also hosts community events throughout the year.

The Gig Harbor Campus offers courses for credit toward an associate degree, career training and Worker Retraining programs, and non-credit personal interest classes. Classes are available at various days and times. Services available to Gig Harbor students include registration, assessment, advising, and career exploration. Students have internet access through campus labs, laptops for in-building checkout, and can use the online library to order materials from the Tacoma campus.

TCC also operates two instruction sites in partnership with the Washington State Department of Corrections: one at the Washington Corrections Center for Women and another at the Mission Creek Corrections Center for Women.





- 1 Facilities Admin • Mail • Print Shop • Receiving
- 2 College Auditorium
- 3 Early Learning Center (ELC)
- 4 Art Gallery
- 5 Classrooms and Studios • Visual Arts
- 6 Certification & Testing Center • Grants • TCC Foundation Marketing & Communications
- 7 Student Services • Access Services • Admissions Adult Basic Skills • Advising • Assessment • Career Center • Computer Assisted Learning Lab (CAL) Cooperative Learning Center (COOP) • Counseling Enrollment Services • Library • Outreach • Running Start • SPRUCE • Student Records • Supplemental Instruction • Writing & Tutoring Center
- 8 Classrooms
- 9 Classrooms • Organizational Learning
- 10 Classrooms
- 11 Bookstore • Dining • Convenience Store • Student Center International Programs • Office of Student Engagement Center for Academic Support Achievement (CASA) Multi-Ethnic & Cultural Affairs (MECA)
- 12 Classrooms • Academic & Student Affairs Administration • TCC President
- 13 Classrooms • Health, Business & Professional Services • Faculty Offices
- 14 Cashier • Financial Aid • Financial Services Office • Human Resources • Parking Permits Security • Student ID Cards • Veterans Affairs
- 15 Classrooms • Math, Sciences & Engineering
- 16 Classrooms • Information Technology • eLearning Information Commons • Business Education Center (BEC) Faculty Offices • Institutional Research
- 17 Classrooms • Food Pantry
- 18 Classroom • Information Technology Adjunct Faculty Center • Telephone Service
- 19 Classrooms • Educational Talent Search • Fresh Start Faculty Offices • Math Advising Resource Center (MARC) Music • Workforce Education
- 20 Classroom • Athletic Department • Gym • Fitness Center Physical Education
- 21 Maintenance Shop
- 22 Maintenance Shop
- F2 Arts, Humanities & Social Sciences • Faculty Offices
- L1, L2 Lecture Halls



# 2021-2022 Instructional Calendar

Approved by the Board of Trustees  
November 16, 2020  
Updated February 18, 2021

June 2021						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

June 21 Classes begin

July 2021						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

July 5 Independence Day

August 2021						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Aug. 12 Last day of classes/final exams if administered

September 2021						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Sept. 14-17 Professional Development Days  
Sept. 20 Classes begin

October 2021						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Oct. 19 Educational Planning Day

November 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Nov. 1 Winter Priority Registration starts  
Nov. 11 Veterans' Day Nov. 24-26 Thanksgiving

December 2021						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Dec. 3 Last Day of Classes  
Dec. 6-9 Final Exams

January 2022						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Jan. 3 Classes begin  
Jan. 17 Martin Luther King Jr. Day

February 2022						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

Feb. 3 EPD Feb. 14 Spring Priority Registration starts  
Feb. 21 Presidents' Day

March 2022						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Mar. 14 Last Day of Classes  
Mar. 15-18 Final Exams

	Fall	Winter	Spring
Classroom Days	50	48	48
Final Exams/Grading	4	4	4
Professional Development Days			5
Mid-quarter, non-instructional Educational Planning Days			3
Non-instructional Faculty Contract Days			10
Total Contract Days			176

March 2022						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Mar. 28 Classes begin

April 2022						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Apr. 22 Professional Development Day  
Apr. 27 Educational Planning Day

May 2022						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

May 9 Summer & Fall Priority Registration starts  
May 30 Memorial Day

June 2022						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

June 6 Last Day of Classes  
June 7-10 Final Exams

① Day/Evening Classes Begin

① Registration Opens\*\*

① Holiday (no class)

① Educational Planning Day (EPD)\*

① Final Exams and Grading

① Professional Development Days

\* Classes starting at 3pm or later will be conducted on Educational Planning Days

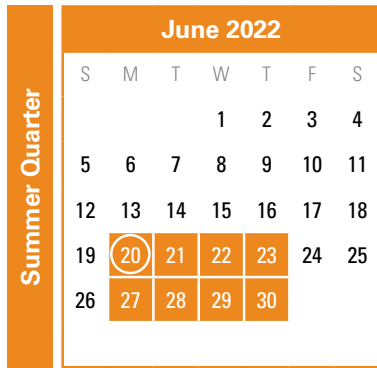
\*\* Registration opens for currently enrolled students

# 2022-2023 Instructional Calendar

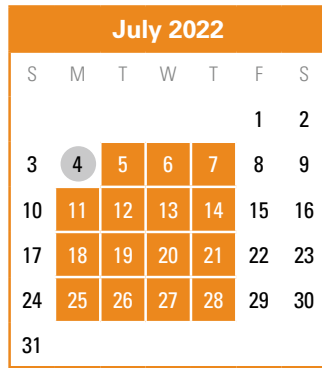
DRAFT

March 4, 2021

\*Effective June 19, 2022, TCC will be observing Juneteenth as a recognized holiday. This calendar is pending revision to reflect the holiday.



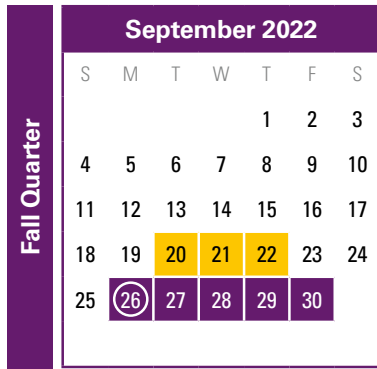
June 20 Classes begin



July 4 Independence Day



Aug. 11 Last day of classes/final exams if administered



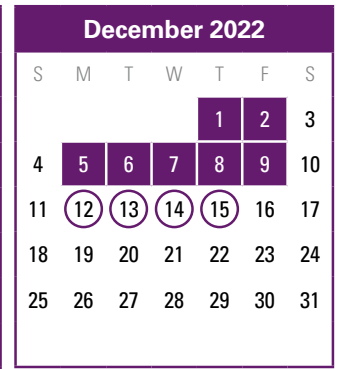
Sept. 14-17 Professional Development Days  
Sept. 26 Classes begin



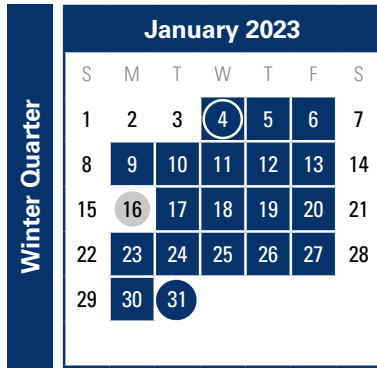
Oct. 26 Educational Planning Day



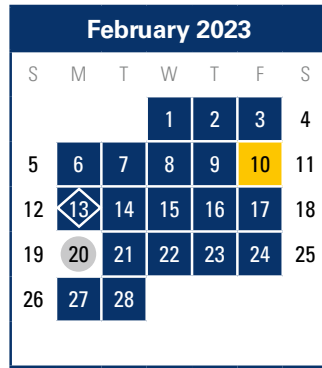
Nov. 4 Winter Priority Registration starts  
Nov. 11 Veterans' Day Nov. 23-25 Thanksgiving



Dec. 9 Last Day of Classes  
Dec. 12-15 Final Exams



Jan. 4 Classes begin Jan. 16 MLK Jr. Day  
Jan. 31 Educational Planning Day

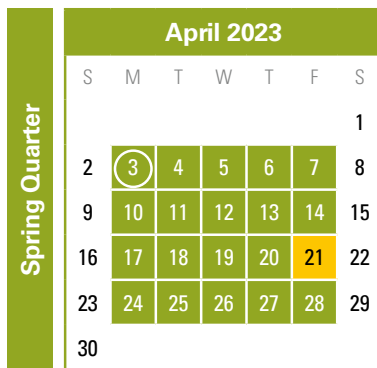


Feb. 10 Professional Development Day  
Feb. 13 Spring Priority Registration starts  
Feb. 20 Presidents' Dayh



Mar. 17 Last Day of Classes  
Mar. 20-23 Final Exams

	Fall	Winter	Spring
Classroom Days	50	49	48
Final Exams/Grading	4	4	4
Professional Development Days	5		
Mid-quarter, non-instructional Educational Planning Days	3		
Non-instructional Faculty Contract Days	9		
<b>Total Contract Days</b>	<b>176</b>		



Apr. 3 Classes begin  
Apr. 21 Professional Development Day



May 4 Educational Planning Day  
May 15 Summer & Fall Priority Registration starts  
May 29 Memorial Day



June 12 Last Day of Classes  
June 13-16 Final Exams

- Day/Evening Classes Begin
- Registration Opens\*\*
- Holiday (no class)
- Educational Planning Day\*
- Final Exams and Grading
- Professional Development Days

\* Classes starting at 3pm or later will be conducted on Educational Planning Days

\*\* Registration opens for currently enrolled students

# TCC Enroll in College

## Start here.

### 1. ATTEND an INFO SESSION

Learn what to do to become a TCC student.

[tacomacc.edu/admissionssupport](https://tacomacc.edu/admissionssupport)

### 2. APPLY

TCC's application is free and online!

[tacomacc.edu/apply](https://tacomacc.edu/apply)

### 3. CONNECT

Set up your student portal, email and ctcLink.

[tacomacc.edu/accounts](https://tacomacc.edu/accounts)

### 4. FIND ways to pay for college

Apply for financial aid and scholarships.

[tacomacc.edu/costsandaid](https://tacomacc.edu/costsandaid)

### 5. EVALUATE your skills

Options to evaluate your skills in English and math. Call 253.566.5093

or visit [tacomacc.edu/placement](https://tacomacc.edu/placement)

### 6. GET ORIENTED

Learn how to enroll for classes at TCC.

[tacomacc.edu/getoriented](https://tacomacc.edu/getoriented)

### 7. PAY your tuition

Find out and remember when tuition is due. [tacomacc.edu/academiccalendar](https://tacomacc.edu/academiccalendar)

## Admission to TCC

The college has an open-door admission policy, which reflects its commitment of access to higher education. Consistent with its open-door policy, TCC practices equal opportunity in its educational programs. Admission decisions are not based on race, color, creed, religion, national origin, gender, sexual orientation, age, marital status, disability, or status as a disabled veteran.

### New Student Admission

New student admission is a simple process. Submit an online admissions application at least one week prior to the quarter in which you want to begin.

Admission to TCC is available to:

- Individuals who are high school graduates or have obtained a GED.
- Current high school junior and seniors can enter TCC through the Running Start program or the College in the High School program.
- Applicants age 16-21 who have not received their high school diploma and are credit deficient may be eligible for the Fresh Start program.
- Adults age 18 and over who have not received their high school diploma can earn their diploma through the High School + program.

### Returning Students

- Students who attended TCC within the past year do not need to reapply for admission.
- Students who have attended TCC in the past will need to contact the Admissions Department to be activated for the appropriate quarter of re-entry.
- If their program of study has changed from when they previously attended, a "Request for Program Plan Change" form must be completed with an advisor.

### Transfer Students

After applying, students who have attended another college should have their official transcripts sent from the previous institutions to Enrollment Services (6501 S. 19th St. Tacoma, WA 98466 or [credeval@tacomacc.edu](mailto:credeval@tacomacc.edu)). Students may also drop sealed official transcripts to Building 7.

Official transcripts are evaluated after a student has enrolled in classes. Allow 6-8 weeks for an official transcript evaluation. Unofficial transcripts, grade reports and online printouts will not be accepted for an official evaluation.

## Admission to TCC

Once completed, you can review your transfer-in credits in your ctcLink Student Center. You can also obtain a copy of your transfer-in credits at Enrollment Services, Bldg. 7 (picture ID required).

After reviewing your transfer-in credits, email [credeval@tacomacc.edu](mailto:credeval@tacomacc.edu) if you have questions. You do not have to wait for your transcript to be evaluated before you meet with an advisor. Send unofficial transcripts to [placement@tacomacc.edu](mailto:placement@tacomacc.edu) before advising appointment.

### Basic Education for Adults (BEaA)

The Basic Education for Adults department offers a variety of courses and programs designed to help individuals who wish to prepare for entry into a college or career pathway and/or improve their basic reading, writing, math, English language, and employment skills. Programs are designed for adults 18 years of age or older. Youth, ages 16-18, must obtain a high school release to be eligible for participation.

Tuition for the BEaA program is \$25 each quarter. Some courses may also have additional material fees. Partial tuition assistance is available for qualified low-income individuals.

For more information about placement testing, class location and registration, call 253-566-144 or email [basicskills@tacomacc.edu](mailto:basicskills@tacomacc.edu). Refer to the Transitional Studies catalog section for additional program details.

### Integrated Basic Education and Skills Training (I-BEST) Admissions

I-BEST programs are offered for students who wish to improve their English language or basic skills while earning a college-level certificate or two-year degree. See page 156 for more information about I-BEST certificate programs. Call 253-566-5375 for enrollment information or stop by the Basic Education for Adults office in Bldg. 7.

### Fresh Start Admissions

Fresh Start is a re-engagement program for youth ages 16-21 years who want to earn a high school diploma or associate degree at Tacoma Community College. Interested students should call 253-566-5086 or visit [tacomacc.edu/freshstart](http://tacomacc.edu/freshstart).

### International Student Admissions

TCC welcomes international students from more than 30 countries around the world. Whether you're entering college for the first time, seeking specific skills for a career path, or upgrading your expertise to compete in today's marketplace, TCC is a great place to learn and grow.

To apply to TCC, simply log on to the online application at [tacomacc.edu/costs-admission/admission-process/international/admissionprocessinternational](http://tacomacc.edu/costs-admission/admission-process/international/admissionprocessinternational).

Transfer Students – if you are currently studying at a different U.S. college or university you are required to submit a transfer form after it has been signed by the International Advisor at your current institution.

For more information call 253-566-5190 or email [international@tacomacc.edu](mailto:international@tacomacc.edu).

### Career Training Program Admissions

Admission to a particular TCC career training program is dependent on individual qualifications and the availability of space in the desired program. New TCC students must complete college applications and, if applicable, specific program applications. For program specific information, please check the program specific web pages on the TCC website: [tacomacc.edu/help/ineedskillstofindaprofessionalcareer](http://tacomacc.edu/help/ineedskillstofindaprofessionalcareer)

### Running Start Admissions

Running Start is a partnership between the Washington State community college system and Washington's public school districts through which eligible high school juniors and seniors may enroll in TCC courses tuition free (other costs apply).

College credits earned through Running Start apply toward high school graduation and satisfy college requirements (within guidelines of the program). To be eligible for Running Start, students must have college-level English skills. For more information, interested students should contact the TCC Running Start program at 253-566-6061 or email [runstart@tacomacc.edu](mailto:runstart@tacomacc.edu).

# Residency

Residency is determined when students apply for admissions at Washington State community colleges and public universities based on revised code of Washington (RCW 28B.15.012-014). To be classified as a resident for tuition purposes, students must have established a bona fide domicile in Washington for 12 continuous months prior to the beginning of the quarter.

- Dependent students are required to have a parent or court appointed legal guardian who has maintained a domicile for 12 consecutive months
- Independent students must have a domicile for 12 consecutive months for purposes other than education
- U.S. citizens, permanent residents, residency affidavit qualifiers, DACA, E, H, and L visas (and others), and students Permanently Residing Under Color of Law (PRUCOL) must have a domicile for 12 consecutive months
- Applications to change residency status will be accepted up to the 30th calendar day following the first day of the instruction of the quarter for which application is made. Applications made after that date in any quarter shall be considered for the following quarter. If non-resident tuition was paid and the request was approved, the difference in tuition will be refunded.

## ESTABLISHING A BONA FIDE DOMICILE

When applying for a residency status change, students must provide evidence of an establish Washington domicile to verify they meet residency requirement. A variety of factors are considered and include the following:

- WA driver's license or state identification obtained 12 months prior to quarter
- WA vehicle registration if you use or own a vehicle registered 12 months prior to quarter
- WA voter registration with date registered
- Lease, rental agreement, home purchase verifying domicile in Washington for 12 consecutive months prior to quarter
- Copy of federal tax return/W2 or paystubs

When the domicile documents are reviewed, the residency officer will determine when the one year waiting period starts. The evidence provided must qualify the student as a resident prior to the first day of the quarter. Students who enroll in six credits or more during their year of eligibility are presumed to have moved to Washington for primarily education purposes; therefore, they will need to overcome this presumption. The burden of proof is on the applicant.

## NON-RESIDENT ELIGIBLE FOR WAIVER

U.S. citizens, permanent residents, and students who meet the exception to the definition of nonresident may qualify for the nonresident waiver tuition rate.

## Military Personnel

### VETERANS

- A veteran who lives in the state in which the institution of higher learning is located (regardless of their formal state of residence) and enrolls in the school may qualify for resident tuition rates.
- A spouse or child using transferred benefits who lives in the state in which the institution of higher learning is located (regardless of their formal state of residence) and enrolls in the school may qualify for resident tuition rates.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in the state in which the institution of higher learning is located (regardless of their formal state of residence) and enrolls in the school may qualify for resident tuition rates.
- Section 103 of PL 115-407, Veterans Benefits and Transition Act of 2018 amends Title 38 US Code 3679: *Tacoma Community College has a policy in place that will allow a veteran student and family member to attend or participate in a course of education, pending VA payment, providing the veteran student and family member submits a certificate of eligibility of entitlement to educational assistance.*

### ACTIVE DUTY

Active duty military, Washington National Guard members, and their spouses and dependents qualify as residents for tuition purposes. The military orders for WA state need to be submitted to Admissions via email (admissions@tacomacc.edu) or in-person to the Enrollment Services office in building 7.

## Residency

Those who maintain a Home of Record of WA state, and that are stationed elsewhere, may qualify for resident tuition rates. The military member's Leave and Earnings Statement (LES) needs to be submitted to the Admissions department for review. Section 103 of PL 115-407, "Veterans Benefits and Transition Act of 2018" amends Title 38 US Code 3679:

*Tacoma Community College has a policy in place that will allow a veteran student and family member to attend or participate in a course of education, pending VA payment, providing the veteran student and family member submits a certificate of eligibility for entitlement to educational assistance under Chapter 31 or Chapter 33.*

### Residency Affidavit Eligibility

The Residency Affidavit allows eligible students to pay resident tuition rates at Washington state colleges and universities. This affidavit is only for those who do not qualify for residency through the standard residency process. To qualify for resident tuition status, students must complete the affidavit/declaration/certification if they have met the following conditions:

- Resided in WA state for one year prior to the student's admitted quarter with our institution.
- Completed the equivalent of a high school diploma (diploma, GED, etc) within the United States.
- Agree that when they are eligible to do so, they will apply for a valid citizenship status within the US if they do not currently have one.

If the above criteria has been met, the student may complete the Residency Affidavit with the Admissions department or while completing the Washington State Financial Aid Application (WASFA).

The Basic Education for Adults (BEaA) department offers a high school completion program for students aged 21 and older. Undocumented students are welcome to participate in this program to earn a high school diploma. See page 156 for more information.

### DEFERRED ACTION FOR CHILDHOOD ARRIVALS (DACA)

On June 15, 2012, the Secretary of Homeland Security announced that individuals who came to the United States as children and meet several guidelines may request consideration of deferred action for a period of two years, subject to renewal. They are also eligible for work authorization. Deferred action is a use of prosecutorial discretion to defer removal action against an individual for a certain period of time. Deferred action does not provide lawful status.

If a student has been approved for DACA (current or expired), they will need to submit official documentation, such as Employment Authorization (EAD), to the Admission department to be reviewed for resident tuition.

For additional residency information, please call 253-566-5108 or email [admissions@tacomacc.edu](mailto:admissions@tacomacc.edu).

## Your Academic Success

Tacoma Community College is committed to supporting each student as they work to achieve their educational goals. The college's support services include multiple class placement options, new student orientations, and academic advising.

### Placement

Class placement determines the level of a student's first classes in English and math. We know that students bring various skills and experiences to college, and our class placement options honor what students know as learners and their ability to choose classes that work best for their academic and professional goals. Placement may include:

- English Directed Self-Placement (DSP),
- ALEKS - Tutoring and evaluation for math,
- Basic skills testing,
- Review of SAT/ACT scores,
- Advanced Placement (AP) test scores,
- translation of other placement scores,
- college transcript review,
- local high school articulation agreements, and
- Smarter Balanced assessment and Bridge to College English and math.

The results are used for academic advising, course placement, and program placement.

Placement is required for any student who plans to register for:

- Six or more credits
- English or math
- Courses with a math, reading or English prerequisite which the student has not satisfied
- A degree, certificate or transfer program
- The Running Start or Fresh Start programs
- ABE, AESL, and Adult HS completion programs (HS+)

## Your Academic Success

International students take an English language placement exam upon arrival and are required to demonstrate English proficiency before beginning college-level academic classes. Students whose English proficiency is not at college level take classes in TCC's English for Academic Purposes (EAP) program.

Naturalized or immigrant students might need to first take the CASAS or EAP test to determine appropriate placement.

Transfer students who have completed college-level math and English coursework with grades of 'C' or higher may substitute a transcript review for the assessment process. Unofficial transcripts may be used for this purpose.

Students with disabilities may request testing accommodations by contacting the Access Services Coordinator in Bldg. 7 at 253-460-4437 or email [access@tacomacc.edu](mailto:access@tacomacc.edu).

### MATH PLACEMENT OPTIONS

TCC offers multiple measures for math placement ranging from test scores to college and high school coursework. The ALEKS-PPL math placement is offered through the Assessment office in Bldg. 7. It is required that students spend time in the ALEKS Prep and Learning module before attempting the placement a second time. They can receive assistance with this preparation at the Math Advising Resource Center (MARC) in Bldg. 19.

Recent high school graduates may be placed into math courses based on a combination of their high school math courses, grades and ALEKS-PPL scores. This option only applies to students from the Tacoma School District, University Place School District, and the Peninsula School District who are entering TCC within one year of high school graduation and are taking their first TCC math

course no more than two years after their last high school math course was completed. Specially trained advisors in Bldg. 7 or the Math Advising Resource Center (MARC) in Bldg. 19 analyze the student's high school transcript as well as the student's assessment score to determine the best placement for eligible students.

TCC also accepts SAT, ACT, IB, AP scores and math placement test scores on some colleges' recognized placement tests from other Washington public colleges when taken within the last year the previous two years or less. In addition, TCC accepts the statewide Smarter Balanced Test used by Washington high schools public four-year schools to establish readiness for college-level mathematics or placement based on the Bridge to College math class.

More placement information can be found at <https://www.tacomacc.edu/placementtesting>

### Advising

Advising at TCC is integrated and student-centered. TCC encourages students to make appropriate choices based on their abilities, interests and values, and supports them in achieving their personal, academic and career goals.

Academic advisors assist new students with the planning and completion of class schedules consistent with their educational goals. Students are encouraged to meet with their academic advisors each quarter to track their educational progress. Once students have identified educational goals, developed plans for achieving their goals, and demonstrated progress, they are assigned faculty advisors.

### NEW STUDENT ADVISING ORIENTATION (NSAO)

To encourage student success, entering students attend a New Student Orientation (NSO) session held on campus. At the orientation students are introduced to academic programs and services of the college and receive academic advising. Orientation also helps students build TCC connections with faculty, staff and fellow students.

All students are required to complete the new student orientation. Part 1 consists of an overview of TCC entry processes and services. Part 2 consists of an individual needs assessment survey to connect new students with resources and their assigned academic advisor. To complete the two-part orientation go to [tacomacc.edu/costs-admission/admission-process/new\\_student\\_orientation](https://tacomacc.edu/costs-admission/admission-process/new_student_orientation)

Students who are taking all their TCC courses online, returning students who have been away for more than a year, and students who are transferring from another college may use the Online NSO to save time. It is important to complete Part 2 at the end of the Online NSO to get an updated advisor assignment.

The Advising Center in Bldg. 7 coordinates campus-wide advising services, provides referral services, and assigns faculty advisors to students. Academic advisors are available by appointment or on a drop-in basis. The Center also provides information on transfer requirements for students planning to pursue degrees at four-year colleges and universities. For more information call 253-566-6091 or email [advising@tacomacc.edu](mailto:advising@tacomacc.edu).

Gig Harbor students may also call the Gig Harbor Campus at 253-460-2424 for advising information.

## Your Academic Success

### HUMAN DEVELOPMENT 101 REQUIREMENT FOR NEW STUDENTS

Students who assess at the developmental level in English are required to enroll in Human Development 101 (HD 101) during their first TCC quarter. The HD 101 Student Success Seminar is recommended for all students.

HD courses help students explore college resources, set goals, make educational and career decisions, develop individual potential, improve interpersonal communication skills, learn decision-making skills, and learn how to build positive relationships. The courses are offered quarterly. Details are available at the Counseling and Advising Center, Bldg. 7. Upon successful completion of Human Development (HD) courses, students will:

- Determine/identify their own capabilities, interests, and values
- Design their own educational, personal, social, or career action plan
- Explain how their own personal responsibility determines their success as a college student
- Locate, use, and evaluate information technology and other college resources
- Participate in the college community.
- Contribute to team projects
- Demonstrate an understanding of college culture

### Dual Enrollment Program between the Univ. of Washington–Tacoma and Tacoma Community College

The Dual Enrollment program allows eligible Tacoma Community College students to take up to 25 credits at the University of Washington–Tacoma before submitting a complete application to UW Tacoma as a degree-seeking student. Current eligibility requirements include the completion of 15 transferable, college-level credits at TCC with a 2.75 GPA or higher and completion of a college-level English composition course with a grade of 2.0 or higher.

Prospective Dual Enrollment students should comply with UW Tacoma application deadlines for the quarters in which they intend to dually enroll, and those who enroll in the program will be responsible for payment of tuition and fees to both TCC and UW Tacoma based on each school's respective tuition rate.

Admission to the Dual Enrollment program does not guarantee admission to UW Tacoma as a degree-seeking student. Call 253-566-6091 for additional information.

## Enrollment

Enrollment is the process of registering for classes each quarter. Detailed information and procedures for enrollment, as well as important dates and deadlines, are published online at [tacomacc.edu/enrollment](http://tacomacc.edu/enrollment). Summer quarter and short courses have prorated deadlines.

### ENROLLING IN CREDIT COURSES

Students enroll for classes using the ctcLink Student Center. New students are required to complete the Online New Student Orientation before enrolling.

### REGISTRATION APPOINTMENTS

Enrollment appointments are the date and time when registration opens for a student. Appointments are determined by number of credits completed at TCC and/or transfer-in credits. If students have completed courses at other institutions, up to 60 credits of those courses can be counted. Priority enrollment appointments are assigned as required by state law and local TCC policy. Per RCW 28B.15.624, veterans may enroll on the day prior to the first day of currently enrolled student registration. Veteran's spouses receiving veteran education benefits also receive priority enrollment appointments.

Returning students who have not attended TCC within the past year may register on the final day of enrollment for current students. Returning students should email [registrar@tacomacc.edu](mailto:registrar@tacomacc.edu) to set up their appointment time.



# Schedule Changes

Students may make changes to their course schedule through the dates published on the Academic Calendar available online at: [tacomacc.edu/academiccalendar](http://tacomacc.edu/academiccalendar). Summer quarter, early/late, and short courses have prorated deadlines.

## TO ADD A CLASS

Students may add a class from the start of their enrollment appointment through the 2nd instructional day of the quarter using their ctcLink Student Homepage. Beginning on the 3rd instructional day, an Add/Drop form with either the instructor's signature or an attached email from the instructor is required and must be submitted to Enrollment Services in Bldg. 7 or emailed to [enrollmentservices@tacomacc.edu](mailto:enrollmentservices@tacomacc.edu). Students may not add new classes after the 10th instructional day of the quarter.

After the 10<sup>th</sup> instructional day of the quarter, the student must submit a Late Add Petition to Enrollment services and is subject to a \$36.50 per class late add/reinstatement fee if approved. Petitions will be only be consider for students who were in attendance of the class prior to the 10<sup>th</sup> day of the quarter. The petition process includes verification by the instructor of the student's first date of attendance.

## TO DROP A CLASS

Students may drop a class through the 10th instructional day of the quarter through their ctcLink Student Center. These classes will not appear on the student's transcript. Starting on the 11th instructional day through 60th calendar day, students can withdraw from a class using the ctcLink Student Homepage. A grade of 'W' will appear on the transcript indicating official withdrawal from the class. Students may not drop classes after the 55th calendar day of the quarter. After this date, an instructor may grant a grade of 'WI' or any other appropriate letter grade based on the syllabus. Students who register for a quarter but do not attend classes are responsible to officially drop their classes.

The consequences of dropping or withdrawing a class vary depending on both the time frame in which the drop occurs and obligations the student may have regarding financial aid awards, veteran benefits, or U.S. Citizenship and Immigration (USCIS) status. Students are advised to review possible consequences before proceeding with withdrawal from one or more classes.

## MEDICAL WITHDRAWALS

Medical withdrawals may be granted in cases where students experience serious unanticipated illnesses. Petition forms are available at Enrollment Services in Bldg. 7. Written documentation from a medical provider must be provided at the time petitions are submitted. Petitions must be submitted no later than the last day of the quarter that immediately follows the quarter in question. Refunds will not be granted for requests received after the quarter has ended.

Students are limited to one medical refund petition each academic year.

## MILITARY WITHDRAWALS

Military withdrawals may be granted for a student who is called up for active duty military service. Petition forms are available online or at Enrollment Services in Bldg. 7. Copy of military orders must be provided at the time petitions are submitted.

Petitions must be submitted no later than the last day of the quarter that immediately follows the quarter in question. Refunds will not be granted for requests received after the quarter has ended.

## ADMINISTRATIVE WITHDRAWALS

Administrative withdrawals are initiated by the college to withdraw students for disciplinary reasons, failure to meet academic standards, or other exceptional causes. Students who are administratively withdrawn for disciplinary reasons are not eligible for tuition refunds. (See Grade Policies for Course Repeat and Course Audit options)

## DROP FOR NON-PAYMENT

Failure to pay tuition by the date listed in the Academic Calendar will result in the student being dropped from all of their classes.

Student receiving financial assistance through Financial Aid, Veterans, or other third party providers will have a hold placed on classes to prevent drop for non-payment. If a student does not see the hold listed in their ctcLink Student Homepage, the student should email the the office handling their assistance:

- Financial Aid: [faid@tacomacc.edu](mailto:faid@tacomacc.edu)
- Veterans Office: [va@tacomacc.edu](mailto:va@tacomacc.edu)
- Third-Party Payments: [sfs@tacomacc.edu](mailto:sfs@tacomacc.edu)

## Schedule Changes

### NO-SHOW INSTRUCTOR DROP

Students who fail to attend initial class sessions and fail to make arrangements with their instructors for excused absences may be dropped by the instructor.

### WAIT LISTS

Some classes have automated wait lists. The availability and length of a wait list varies. The length of a wait list for a class is determined by the department/program.

When students attempt to register for full classes that have wait lists, they are offered the opportunity to be placed on a wait list. Students are placed on the wait list on a first-come, first-served basis. Students can be on a total of no more than two wait lists at a time.

Once a class has an active wait list, all regular registration activity for that class stops. As other students drop these classes, wait-listed students are automatically registered into available class openings from the wait list in the order they were placed on the wait list. Waitlisted students are not registered into available class openings if doing so will result in their exceeding their Maximum Total Units (usually 19 credits) or being enrolled in two different classes of the same course. Students may set up a Swap in ctcLink Student Center to avoid these limitations.

### WAIT LIST HOLDS

It is the student's responsibility to track their status in ctcLink Student Center to see if they have been moved from the wait list to having been enrolled in the class.

The waitlist process runs through the end of the second instructional day of the quarter. Students who have not been enrolled into a class by this point are encouraged to contact the instructor to see if the instructor will permit enrollment. If student receives permission, a signed Add/Drop or an email from the instructor should be submitted to Enrollment Services in Bldg. 7 or by email to [enrollmentservices@tacomacc.edu](mailto:enrollmentservices@tacomacc.edu).

Students with financial holds will not progress off of waitlists into classes until the hold is lifted. Students should contact the department that placed the hold for further information regarding lifting the hold once the financial obligation is satisfied.

## Tuition and Fees

Fees paid by students include:

- Tuition fees, which are carefully controlled by legislative action;
- Student activities fees, which are voted on and approved by students through Student Leadership;
- Course fees, approved by the Board of Trustees on an annual basis;
- Facilities fees (i.e., the Early Childhood Center or the Student Center) paid to support buildings that require local funds to build and these are formally approved by Student Government as projects they want to support;
- Public Safety/Parking fees are set by the College to support staffing for Public Safety and to provide parking;
- Technology and Fitness Center fees are likewise added via student vote. These fees support student computer facilities and internet access, and provide equipment for use of the Fitness Center; and,
- eLearning fees for students participating in online, hybrid, and web enhanced courses are charged to support online technologies, training, and student support including a Help Desk.

Current quarterly tuition and fee rates are posted at [tacomacc.edu/costsandaid/tuition](http://tacomacc.edu/costsandaid/tuition). Tuition and fees are due approximately three weeks prior to the start of classes. Late payments may result in cancellation of registration. Payments may be made via:

- Cashier's Office in Bldg. 14, Tacoma Campus
- VISA or MasterCard at the TCC website or by calling 253-566-5011
- Gig Harbor Campus
- Automatic Payment Plan (NELNET)

# Financial Assistance

## FINANCIAL AID

The primary responsibility for an education rests with students and their families. However, if financial resources are not sufficient to cover expenses, students may be eligible for financial aid. Aid programs include grants, work study, loans and scholarships.

Applying for financial aid takes time. Information is available online at [tacomacc.edu/costs-admission/financial-aid/](http://tacomacc.edu/costs-admission/financial-aid/) or you may contact Financial Aid Services in-person at Bldg. 14 or by email at [faid@tacomacc.edu](mailto:faid@tacomacc.edu). It is advisable to begin the application process in October for the upcoming academic year. The deadline for priority funding is typically mid- to late-March for the upcoming fall quarter. Specific quarterly deadlines are available from Financial Aid Services and online at [tacomacc.edu/costs-admission/financial-aid/](http://tacomacc.edu/costs-admission/financial-aid/). Basic eligibility requirements for financial aid are as follows. A student must:

- Have a high school diploma or GED or meet the Ability to Benefit (ATB) criteria. Call 253-566-5144 to schedule an appointment with Rebecca Jayasundara for ATB information.
- Be in a financial aid-eligible degree program or an eligible certificate program.
- Be a U.S. citizen or eligible non-citizen.
- Be making satisfactory academic progress as defined by the TCC satisfactory academic progress requirements.
- Be registered with selective service (if required).
- Provide a valid Social Security number, and not owe any repayments or be in default on any federal student loans.

Washington College Grant may be available for low income, non-citizen students who meet certain residency criteria.

Students advised into Adult Basic Education (ABE) may not be eligible to receive financial aid until they have demonstrated ability to benefit (see page 17) or have successfully completed their ABE coursework and are advised into an eligible college certificate or degree program. Students may, however, be eligible for other forms of financial aid and/or scholarships.

Students are expected to successfully complete the credits on which their aid is based and earn a grade point average (GPA) of at least 2.0. In doing so, students remain in good standing and can continue to receive financial aid. Students planning to drop credits after financial aid has been disbursed should discuss changes with the Financial Aid Services office first. Failure to successfully complete may cause financial aid to be cancelled and may require repayment of a portion of the aid received and all or a portion of the related tuition. A complete policy regarding these standards is available in the Financial Aid Services office upon request and is mailed to all aid recipients.

All potential financial aid applicants should note that previous academic performance will be reviewed prior to granting funds. All coursework from TCC is taken into consideration, even if aid was not received.

## AUTOMATIC PAYMENT PLAN (NELNET)

Students who owe \$200 or more in quarterly tuition and fees may enroll in the automatic payment plan, which offers easy online enrollment, monthly payment plans, with flexible payment options with no interest. Payment methods include automatic bank payment (ACH) and credit card/debit card payment. There are minimal costs to participate in this automatic payment plan. Follow these simple steps to enroll in the payment plan:

- Log into ctcLink Student Homepage
- Click on Financial Account tile
- Click on Payment Plans
- Click on NelNet Payment Plan
- Follow the on screen instructions for setting up NelNet account and payment plan.

Students with financial aid or coverage by a third party should not sign up for the automatic payment plan. Contact Nelnet Business Solutions at 1-800-609-8056 or the TCC Business Office at 253-460-4311 or [sfs@tacomacc.edu](mailto:sfs@tacomacc.edu) for more information.

## PASSPORT TO COLLEGE PROGRAM

Students who have been in foster care in Washington state may be eligible for this scholarship and grant. Contact CASA/MECA (Bldg. 11) for more information or call 253-566-5025. Visit [wsac.wa.gov/passport-foster-youth](http://wsac.wa.gov/passport-foster-youth).

## SCHOLARSHIPS

Scholarships are awarded for academic merit, financial need, athletic or artistic talent, community involvement and fields of study. Unlike loans, they do not have to be repaid.

Each year over 300 scholarships are awarded to TCC students. Money is provided by friends of the TCC Foundation to help students pay for tuition, books, fees, and in some instances, supplies. More information about TCC Foundation scholarships is at [tacomacc.edu/about/foundation/foundation-scholarships](http://tacomacc.edu/about/foundation/foundation-scholarships).

There are also external scholarships available to all TCC students. An information board listing scholarships is maintained in Bldg. 14 or online at [tacomacc.edu/scholarships](http://tacomacc.edu/scholarships). The posted information summarizes scholarship criteria and the application process.

## Financial Assistance

### VETERANS, ACTIVE DUTY MILITARY AND RESERVIST SERVICES

Tacoma Community College is approved for the education and training of veterans, the children and spouses of deceased, MIA and POW, or 100% total or permanent disabled veterans, and eligible members of the select reserve. Contact Veterans Services in Bldg. 14 or call 253-566-5081 to apply for benefits.

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school **will not**:

- Prevent the students enrollment;
- Assess a late penalty fee to;
- Require student secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies

Veterans and family members attending TCC who expect to receive Veterans Administration benefits must meet three minimum standard requirements, in addition to those required by the college:

- Veterans and family members using benefits must declare a program of study or degree objective and will be paid only for those classes that apply toward the VA approved program of study.

- Veterans and family members must complete the course work paid for. Grades of 'U', 'S', or 'W' will result in overpayment; this means some or all the benefits received must be repaid.
- Veterans and family members must notify Veterans Services when changing classes, withdrawing from the college or when deciding to stop attending classes.
- A dedicated veterans counselor is located in the Counseling & Advising Center, Bldg. 7, to support veterans and their spouses.
- Veterans and family members must contact the Veteran Services Office if they no longer want to use their VA Education Benefits.

Benefits may be terminated for unsatisfactory progress or conduct. If terminated, benefits may be reinstated by a certifying official upon establishing a reasonable likelihood that satisfactory progress and/or conduct will be sustained in the future. This can occur only after all other admission requirements have been met. Selected programs of study are approved by a Washington State Approving Agency for enrollment of those eligible for benefits under Title 28 and Title 10, U.S. Code.

### RIGHTS OF WASHINGTON NATIONAL GUARD AND OTHER MILITARY RESERVE STUDENTS CALLED TO SERVICE (RCW 28B.10.270)

A member of the Washington National Guard or any other military reserve component who is a student at an institution of higher education and who is ordered for a period exceeding thirty days to either active state service, as defined in RCW 38.040.010, or to federal active military service has the following rights:

- Withdraw from one or more courses for which tuition and fees have been paid that are attributable to the courses.

- Be given a grade of incomplete and be allowed to complete the course upon release from active duty under the institution's standard practice for completion of incompletes.
- Continue and complete the course for full credit.
- Be entitled to make up the class, test, examination, laboratory, presentation, or event without prejudice to the final course grade or evaluation.

For full details of this RCW refer to [app.leg.wa.gov/rcw/default.aspx?cite=28B.10.270](http://app.leg.wa.gov/rcw/default.aspx?cite=28B.10.270).

### Workforce Funding

Workforce programs can provide tuition, fees, books, support funding and access to childcare assistance (through Working Connections Childcare) to qualifying students. Each Workforce Education funding program has different criteria and requirements but TCC has made it easy to get started with one application to connect students with the program(s) best suited to provide the most support.

Workforce programs support students seeking:

- Professional technical training (TCC has over 40 degrees and certificates available)
- Job skills training – specific skills needed to gain employment
- Pre-college skills (high school diploma, GED, basic skills or ESL) to prepare for career training

### BASIC FOOD EMPLOYMENT & TRAINING PROGRAM

Students receiving or who are income eligible for Basic Food Assistance through the Department of Social and Health Services (DSHS) may be eligible for funding and support under the Basic Food Employment & Training (BFET) program.

## Financial Assistance

### OPPORTUNITY GRANTS

A student may be eligible for Opportunity Grants if the student:

- Holds Washington State resident status per TCC Admissions
- Meets income guidelines
- Has not received Opportunity Grant funds more than three years ago ago
- Is within 45-credit limit to meet Opportunity Grant guidelines

### WORKER RETRAINING

A student may be eligible for Worker Retraining assistance if in the past 48 months any of the following apply:

- Collects or has collected unemployment benefits in Washington state
- Separated from the military with an honorable discharge
- Displaced homemaker (divorced, separated or widowed)
- Formerly self-employment in a Washington State-licensed business
- Currently employed but meets at least two of the following:
  - Is in a declining occupation
  - Needs training to keep current job
  - Has not earned 45 college credits and a related certificate or degree

### WORKFIRST

WorkFirst assistance is available to students who are receiving Temporary Assistance for Needy Families (TANF) through the Department of Social and Health Services (DSHS).

For more information on all Workforce programs:

- Visit [tacomacc.edu/workforce](http://tacomacc.edu/workforce)
- Call 253-566-5188
- Email [tccworkforce@tacomacc.edu](mailto:tccworkforce@tacomacc.edu)
- Come by the Workforce Education office in Bldg. 19 Room 70, on TCC's main campus

## Refund Policy

### Credit Classes

College procedures for the refund of tuition and fees to students in compliance with state statutes.

- A student must complete the official withdrawal procedure to receive a refund.
- A student dismissed from the college for disciplinary reasons is not eligible for a refund.
- Instructional days are defined as days school is in session, not including weekends and scheduled holidays.
- Calendar days are defined as all days of the month, not just instructional days.

Refunds will be made according to the following schedule:

- Withdrawal resulting from classes being cancelled by the college – 100%
- Withdrawal up to the 5<sup>th</sup> instructional day of the quarter – 100%
- Withdrawal from the 6<sup>th</sup> through the 20<sup>th</sup> calendar day of the quarter – 40%
- Withdrawal after the 20<sup>th</sup> calendar day of the quarter – 0%

Summer quarter courses, courses which do not follow the regular college calendar, early/late starting courses, and short courses have prorated refund periods. Contact Enrollment Services at 253-566-5325 for the related refund dates.

### Continuing Education Non-Credit Class Cancellation and Refund Policy

TCC reserves the right to change, reschedule and cancel non-credit classes as needed, for reasons including but not limited to inclement weather, instructor-related issues, and low enrollment.

Payment for all non-credit classes is payable at the time of enrollment.

- Student-initiated withdrawal: If a student elects to withdraw from a class, a request must be made before a refund is issued. Requests can be sent via email to [continuingeducation@tacomacc.edu](mailto:continuingeducation@tacomacc.edu). If the request is made at least five calendar days before the first day of class, the class fee will be returned to the student.
- College initiated cancellation: If TCC initiates a class cancellation, a full refund will be issued. Efforts will be made to notify all registered students.
- Low enrollment cancellations: Non-credit classes are dependent upon a minimum student enrollment number and are cancelled three days prior to the class start date if that enrollment number is not met.
- Refunds: Students should allow three to four weeks for processing of refunds. Refund checks will be mailed to the address students have on file.

# TCC Students

## Support for YOU

TCC offers comprehensive student support services to help ensure student success, including:

- Nationally accredited Early Learning Center for child care
- Counseling and Advising Center
- Career Center
- Access Services for students with disabilities
- Assessment Services for appropriate placement into classes
- Center for Academic Support and Achievement (CASA) and Multi-Ethnic and Cultural Affairs (MECA)
- International Student Services and Programs
- Free tutoring services:
  - Writing and Tutoring Center (WTC)
  - Business Education Center (BEC)
  - Math Advising Resource Center (MARC)
- Learning Resource Center at the Gig Harbor Campus
- Re-entry Navigation
- Veterans Services
- Supplemental Instruction (SI)
- Peer Mentors
- TCC/THA College Housing Assistance program
- Adult Basic Education program
- Navigational support through IBEST
- Financial advisor
- Dedicated Tutoring

and more ...

# Student Services

## Access Services

### Serving Students with Disabilities

TCC's Access Services assures that students with disabilities have equal access to programs and activities offered at the college.

Access Services staff coordinate services and foster student independence. To receive academic accommodations, students should make an intake appointment with the Access Services office.

To learn about options and opportunities:

- visit Access Services, Bldg. 7
- call 253-460-4437
- visit [www.tacomacc.edu/academics-programs/academic-support/access-services](http://www.tacomacc.edu/academics-programs/academic-support/access-services).

## Career Center

The Career Center, located in Bldg. 7, offers extensive resources to assist students in making career and educational decisions including:

- Individual career assessment to explore interests, identify personal strengths and match skills with career opportunities
- Access to a Career Coach to help match students with TCC education pathways and careers
- Washington Occupational Information Services (WOIS), a system providing access to accurate, up-to-date occupational and educational information specific to Washington State
- Catalogs for colleges and universities; contacts for Washington schools
- Assistance in finding full-time, part-time, temporary and seasonal employment
- Assistance with job-search skills, including resume assistance and interviewing techniques
- Internships and volunteer opportunities

Learn more at [tacomacc.edu/tcc-life/career\\_center](http://tacomacc.edu/tcc-life/career_center).

## Center for Academic Support & Achievement (CASA) and Multi-Ethnic & Cultural Affairs (MECA)

CASA/MECA provides support services and activities designed to increase academic retention, persistence, graduation and/or transfer to four-year institutions for students who are people of color, first-generation, low-income, and/or part of special populations (including Men of Distinction, student athletes, undocumented students, College Bound Scholars, Passport Foster Youth, and Washington Opportunity Scholars).

Programs and services include:

- Academic and transfer advising
- Financial aid advising and grant/scholarship information
- Emergency book / calculator loans
- Computer and quiet study labs
- Group and peer mentoring

CASA/MECA staff also play a key role in campus cultural events and activities.

To learn more visit CASA/MECA (first floor of the Student Center, Bldg. 11) or online at [tacomacc.edu/academics-programs/academic-support/casa-meca](http://tacomacc.edu/academics-programs/academic-support/casa-meca).

## College Housing Assistance Program (CHAP)

Tacoma Community College (TCC) and Tacoma Housing Authority (THA) have formed a partnership to provide rental assistance to TCC students who are homeless or almost homeless. Eligibility is awarded through enrollment in basic studies courses and/or college-level courses at TCC, with added eligibility criteria set by the THA.

Availability is limited. Assistance is provided in two forms: (1) a voucher that allows students the ability to pay a reduced rental rate at a THA-approved property; or (2) through availability of

an apartment unit at a pre-determined partner-property complex located near TCC. Waiting lists are maintained.

Applications for assistance are accepted the 10th day of classes for each term. Students who are exiting the Department of Corrections are also eligible for this program.

For more information please visit: [tacomacc.edu/academics-programs/academic-support/college\\_housing\\_assistance\\_program](http://tacomacc.edu/academics-programs/academic-support/college_housing_assistance_program)

## Counseling Center

The Counseling Center staff offer a wide variety of services to students in an atmosphere of mutual trust and confidentiality. Services available to students include:

- Counseling to assist in educational planning and resolving problems relating to studies
- Counseling to address a wide range of personal concerns that interfere with school
- Counseling to assist in choosing academic majors, programs or careers
- Counseling and support for veterans and military affiliated students
- Career interest assessment
- Current information on educational and career opportunities
- Classes in human development, career and life planning
- Special-interest workshops and class presentations
- Information on substance abuse prevention and recovery
- Referral to a wide variety of community resources when additional services are needed

Counseling appointments are free to enrolled students. For an appointment, call 253-566-5122 or stop by the Counseling Center in Bldg. 7.

Learn more at [tacomacc.edu/tcc-life/campus-services/counseling](http://tacomacc.edu/tcc-life/campus-services/counseling).

# Student Services

## Early Learning Center (ELC)

The Early Learning Center is a state-certified, accredited nonprofit campus center (Bldg. 3) that offers a high-quality, affordable child care program designed to enable parents to pursue education at TCC by providing a safe, nurturing environment for their children. Additional services provided by the Center include breakfasts, hot lunches and afternoon snacks; developmental screening assessment; and family resources and referrals. Spaces are also available to children of TCC staff and faculty. TCC students are given priority for enrolling their children.

The Center accepts children from one month to five years of age and provides a comprehensive program of activities suited to the developmental level of the children. Tuition is determined by a sliding fee scale, based on parent's income. Eligible four-year-olds can enroll in the preschool ECEAP program which provides 6½ hours of free preschool per day. Also, eligible children one month to three years of age may enroll in the Early Head Start program.

The ELC may offer a camp summer quarter for children who attend elementary school and who are between the ages of five and eight at the beginning of summer.

Center hours are 7:30 a.m.-5:30 p.m., Monday-Friday. Summer hours are 7 a.m.-5:30 p.m., Monday-Thursday.

Families using the Center are required to participate in a series of parent education courses or other activities to be determined.

Parents can place their children's names on the waiting list by coming to Bldg. 3 or visiting [tacomacc.edu/tcc-life/campus-services/childcare/](http://tacomacc.edu/tcc-life/campus-services/childcare/).

## Educational Talent Search

Educational Talent Search (ETS) is a federally funded TRIO program designed to assist 6th- through 12th-graders enrolled at Jason Lee Middle School and Stadium and Foss High Schools to better understand their educational opportunities and options.

ETS provides tutoring, academic advising, personal counseling, career and college preparation and mentoring and is committed to educational access, diversity, excellence and the belief that each student is a valuable member of the educational community. Contact ETS at 253-566-5110.

## International Student Services and Programs

Tacoma Community College provides a quality learning environment in which international students can pursue their educational objectives. The college is committed to international education as a means to promote cultural, political, and social awareness and understanding.

Through the college's International Student Services and Programs office (Bldg. 11), students receive support in a variety of areas including detailed assistance in admissions and registration, academic advising, and orientation to the campus and community. In addition, the office provides information on United States Citizenship and Immigration Services regulations.

Services for international students also include housing and activities. Students who request help with accommodations are matched with local families for home-stays or referred to nearby apartments. TCC's International Student Organization (ISO), a large and active student club, plans numerous events of special interest to international students.

TCC offers direct transfer agreements for international students transferring to the University of Washington–Tacoma, Saint Martin's University in engineering, Pacific Lutheran University, Washington State University, Brandman University, Central Washington University, Concordia University, Portland State University, Indiana University South Bend, and more.

For more information visit [tacomacc.edu/costs-admission/admission-process/international/](http://tacomacc.edu/costs-admission/admission-process/international/) or call 253-566-5190.

## Mathematics, Engineering, Science Achievement Program (MESA)

MESA supports STEM (science, technology, engineering, mathematics) students who are first-generation, low-income, and/or people of color pursuing STEM majors to transfer successfully to earn their bachelor's degrees in STEM.

Support includes:

- Academic and transfer advising
- Academic enrichment
- Scholarship and internship information
- Industry and social connections
- Volunteer and community opportunities
- Professional development
- Book and calculator loans
- Study center with computers

MESA is located in Bldg. 15. Information about MESA, an online application, and a link to schedule an interview appointment can be found at [tacomacc.edu/MESA](http://tacomacc.edu/MESA).

## Men's Services

Men are encouraged to call 253-566-5122 or stop by the Counseling Center in Bldg. 7 to inquire about resources addressing men's issues or concerns.

A men's support group is offered when interest is expressed. See also the Human Development course, Life



## Student Services

Choices for Men (HD 116). TCC's Early Learning Center provides information on classes of interest to parents.

### Re-entry/New Chances

At TCC, we welcome students from all walks of life, including those who have been involved with the criminal justice system. Our New Chances program provides personalized support for students in Pierce County to pursue their education after release from incarceration.

We know that education is an important stepping stone to a better life. We also know how challenging it can be to attend school while working and re-entering the community. We are here to help. You'll work with our Re-entry Navigator, who will link you to the resources you need.

For information send an email to Larry Quintana at [lquintana@tacomacc.edu](mailto:lquintana@tacomacc.edu).

### Safe Zone

Safe Zone is a campus-wide initiative to support LGBTQA+ students by identifying and training advocates among TCC faculty and staff. Participants are familiar with resources and issues specifically affecting LGBTQA+ individuals, and commit themselves to creating a safe environment for all students at TCC. Through its network of allies and advocates, Safe Zone strives to:

- Make issues around gender and sexual identity visible and positive
- Help LGBTQA+ students identify allies on campus
- Provide resources and support for LGBTQ+ students and advocates alike
- Create a stronger sense of community through greater understanding of LGBTQA+ culture

Staff and faculty displaying the Safe Zone sticker have completed training and confirmed their commitment to the program's mission.

More information can be found at [tacomacc.edu/tcc-life/safe\\_zone](http://tacomacc.edu/tcc-life/safe_zone).

### SPRUCE Tuition Waiver Program

The SPRUCE program waives tuition of classes for un/underemployed individuals on a space available basis.

All of the requirements apply as of the first day of classes for the quarter enrolled. You must:

- be a Washington State resident
- be 21 years or older
- not have attended college or community college for the previous six months
- not be receiving or eligible to receive unemployment compensation
- have been unemployed or underemployed for the previous six months
- have a monthly household income at or below 200% Federal Poverty level (qualify for food stamps)

For more information visit [tacomacc.edu/costs-admission/financial-aid/spruce](http://tacomacc.edu/costs-admission/financial-aid/spruce) or call the EOC at 253-566-5201.

### Women's Services

A variety of workshops, support groups and activities are planned on campus throughout the year to support women's interests.

Life Choices for Women (HD 116) is a class offered to assist women in transition. Women may call the Counseling Center at 253-566-5122 with questions about women's services. TCC's Early Learning Center provides information on classes of interest to parents.

## Other Services

### Art Gallery

The TCC Art Gallery is located in Bldg. 4. The Gallery features original artwork by students, faculty, and community artists, and offers interactive programming such as guest lectures, presentations and workshops.

### College Bookstore

New and used textbooks for TCC courses may be purchased in the Bookstore, Bldg. 11. Art and classroom supplies, nursing uniforms and postage stamps are also available. Anyone can place special book orders through the Bookstore.

Students can order textbooks online approximately four weeks before classes start. The online store [tacomacc.edu/tcc-life/campus-services/bookstore](http://tacomacc.edu/tcc-life/campus-services/bookstore) also provides an assortment of clothing, supplies, TCC imprinted items, graduation regalia and bargain books. Orders can be shipped or picked up in-store or at the Gig Harbor Campus.

Coffee, drinks and a variety of snacks are available in the Convenience Store, located inside the Bookstore.

### Food Court

The TCC Food Court is located in the Opgaard Student Center, Bldg. 11.

The Food Court is closed on professional development days, and hours vary on mid-quarter educational planning days, on holidays, and during finals week and summer quarter.

Additionally, food and beverage machines are located in many buildings on campus.

### ID Cards

Photo identification cards providing access to TCC's library, computer lab and fitness center, are available through the Campus Public Safety office, Bldg. 14.

## Other Services

### Parking on Campus

Students are required to display a parking permit when parking in designated student parking areas (unmarked spaces). Administrators, faculty, and staff are required to have valid parking permits which authorizes their vehicles to park in designated administrative or faculty/staff designated parking spaces. Failure to obtain a permit or to adhere to parking and traffic rules and regulations may result in fines or other penalties. Security and parking information is given to students during registration and to employees at the time of employment.

Parking permits may be obtained through the Public Safety office in Bldg. 14.

### Public Safety Office

TCC's Public Safety office is responsible for:

- providing a safe and healthy educational and working environment for students and employees,
- maintaining TCC's accident prevention program,
- and the protection of people and property.

Public Safety employees maintain parking controls, enforce traffic laws, investigate accidents, maintain a lost and found department and handle emergency situations.

Students and staff are encouraged to report any unusual campus incidents by calling 253-566-5111. The backup number is 253-495-4146.

## Student Policies and Notices

Tacoma Community College, its employees and its students adhere to a variety of policies. The major policies of the college are posted at [tacomacc.edu/about/policies/](http://tacomacc.edu/about/policies/).

### Student Right to Know

Information required under the Student Right to Know Act is available on the college website. This includes:

- Campus Safety and Substance Awareness
- Student Right to Know Guide
- Completion and Graduation Rules

Additional information is available in the Student Affairs Administration office in Bldg. 7 and Safety and Security office in Bldg. 14. The Equity in Athletics Disclosure Act Report is available in the Athletic Department, Bldg. 20.

### Policy Appeals

The college provides a process for students to appeal operating policies or procedures. Appeals are typically addressed to the manager responsible for administration of the specific policy or procedure. Policy and procedure appeals are usually subject to strict time limits – it is important to act upon a concern as soon as it develops.

Some of the rules by which TCC operates are based on state or federal laws; in most situations, laws may not be appealed. To find out who to contact regarding a particular appeal, contact the office of the Vice President for Student Affairs in Bldg. 7.

### Code of Student Conduct

Admission to Tacoma Community College carries with it the presumption that the student will conduct themselves as a responsible member of the college community.

The Code of Student Conduct identifies the responsibilities of students according to state law and college policy. The provisions of the code apply to all students whenever they are on the college campus or engaged in college-sponsored activities or functions.

Students who commit any of the following offenses are subject to disciplinary action:

- Personal offenses (such as assault, disorderly, drunken or abusive conduct, false complaint or alarm, illegal assembly, trespass, sexual harassment, and possession of or use of firearms)
- Property offenses (such as theft, intentional or grossly negligent damage or destruction of college property, and unauthorized use of college equipment)
- Status offenses (such as cheating, plagiarizing, or tendering; forgery or alteration; use, possession, selling, or being under the influence of narcotics; being under the influence of alcoholic beverages except when official approval has been given; use, possession or distribution of alcoholic beverages on campus; failure to comply with directions of an authorized college official; smoking in "no smoking" areas; and unauthorized occupancy of a college facility)

# Student Policies and Notices

Requests by students or college employees to initiate disciplinary proceedings should be submitted in writing to the Student Conduct Administrator or designee within 10 instructional days of the date the petitioner became aware or could have become aware of the alleged violation of the code.

A student is subject to disciplinary warning, probation, suspension or expulsion for violating any of the above listed offenses. The Code of Student Conduct identifies the due process guaranteed to students who are charged with violating provisions of the code.

The college's Code of Student Conduct is available in the office of the Vice President for Student Affairs in Bldg. 7 and on the college website at [tacomacc.edu/about/policies/code-of-student-conduct](http://tacomacc.edu/about/policies/code-of-student-conduct).

## Leave for Faith and Conscience

Students are entitled to up to two days of excused absences per calendar year for reasons of faith or conscience or for organized activities conducted under the auspices of a religious denomination, church, or religious organization. Each holiday taken under this policy must be taken as a whole day, i.e., the day may not be divided into hours and taken piecemeal. Per RCW 1.16.050 and Substitute Senate Bill 5173 absences occurring under this policy shall not adversely impact a student's grade.

The Leave for Faith and Conscience notification form is available in Enrollment Services, Bldg. 7 or on the student portal.

## Equal Opportunity Employer and Educator

The principles of equal employment opportunity, affirmative action and nondiscrimination are fundamental to the mission, goals and objectives of Tacoma Community College. The college complies with applicable federal and state laws designed to promote equal employment opportunity and affirmative action.

- It is the policy of Tacoma Community College to provide an environment in which faculty, staff and students can work and study free from harassment or discrimination.
- The college will assure equal employment opportunity and prohibit discrimination in employment on the basis of race, ethnicity, religion, national origin, gender, sexual orientation, gender identity, age, marital status, status as a disabled or Vietnam era veteran, the presence of a sensory, mental or physical disability or genetic information.
- The college will integrate the principles of equity, diversity and inclusion into all facets of the college. We strive to eliminate barriers to employment which artificially restrict recruitment, hiring, retention, tenure and promotion, and to create an organization that reflects the diversity of the client constituencies we serve. Further, the college is committed to creating a climate in which diversity is valued and fostered, exposure to differing cultures and peoples is viewed as a key component of the employment experience, and that the college seeks to strengthen and expand the diversity of faculty, staff and students wherever possible.

- The college is committed to creating a culture and environment that respects and values individual and collective differences as well as encourages the productive potential of every employee.
- The college seeks to address challenges, further our objectives and develop a culture welcoming to all who enter. The diversity of the college has a direct correlation to the excellence of services provided to students to meet their needs culturally, economically and socially.

The college maintains a program of affirmative action as provided for by state and/or federal law. This policy is applicable to the college's educational programs and activities; student services and financial aid programs; use of facilities, purchasing, contracting and facilities construction activities, and all areas of employment. The college is committed to protecting the rights and dignity of each individual in the campus community, and will not tolerate discrimination of any kind at any level.

Individuals who feel they are being discriminated against are encouraged to seek help. For more information contact one of the following offices:

- Vice President for Student Affairs, 253-566-5115, or
- Vice President for Human Resources and Legal Affairs, 253-566-5054.

The college's policy statement and procedures for filing discrimination complaints is available from TCC administrative offices, the office of the Vice President for Student Affairs, the ASTCC President's office, the Counseling Center, the Library, and Human Resources.

## Student Policies and Notices

### **Nondiscrimination and Harassment Policy and Grievance Procedure (Title IX)**

Tacoma Community College recognizes its responsibility for investigation, resolution, implementation of corrective measures, and monitoring the educational environment and workplace to stop, remediate, and prevent discrimination on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal.

To this end, Tacoma Community College has enacted policies prohibiting discrimination against and harassment of members of these protected classes. Any individual found to be in violation of these policies will be subject to disciplinary action up to and including dismissal from the college or from employment. The policy in its entirety is available at [tacomacc.edu/about/policies/nondiscrimination-and-harassment-policy-and-grievance-procedure](https://tacomacc.edu/about/policies/nondiscrimination-and-harassment-policy-and-grievance-procedure).

### **Communicable Disease Prevention**

The college is committed to providing a safe and healthy educational environment. Consistent with existing law and in the interest of all concerned, the college takes appropriate measures to ensure a safe environment through the provision of all necessary training and precautions in regard to communicable diseases.

### **Use of Student Artifacts**

Some student assignments may be referenced as artifacts and analyzed in conjunction with the college seeking accreditation renewal; needing to demonstrate evidence of expected performance; subjecting itself to external review by accrediting bodies; and/or sharing best practices and lessons learned with other higher education professionals. By attending classes at TCC, students agree to allow access and reference to assignments, usage patterns, and share content and/or information as needed to facilitate such processes and the continuous improvement of college programs.

### **Family Educational Rights and Privacy Act (FERPA)**

The Family Educational Rights and Privacy Act requires institutions of higher education to establish written policies and guidelines governing the review, inspection, release, amendment and maintenance of student educational records.

Tacoma Community College has established policies and guidelines to ensure that the education records of its students are treated responsibly in accordance with the act and U.S. Dept. of Education regulations.

TCC directory information can be released without a student's permission. It includes student names, degrees and awards. TCC will also confirm dates of attendance, dates of birth, major field of study, participation in officially-recognized sports and activities, and most recent previous educational institution attended. Release of non-directory information requires a release signed by the student.

Students should be advised that military recruiters may request and receive address and phone listings as well as the above directory information without a signed release.

A student may request directory information be withheld from public release by filing an annual request with the Registrar in Bldg. 7. However, the college may authorize designated persons and agencies access to students' educational records under certain conditions listed in the college policy without the student's consent.

Copies of the college's student educational records policies and procedures may be obtained from the office of the Vice President for Student Affairs in Bldg. 7.

Students may file complaints concerning alleged failures by the college to comply with the Act or regulations promulgated there under with the United States Dept. of Education (FERPA), Office of the Review Board, Washington, D.C. 20202.

### **Radiologic Technology Program Pregnancy Policy**

For information on the Radiologic Technology Program Pregnancy Policy, contact the Radiologic Sciences program chair.

# Student Policies and Notices

## **Tobacco and Smoke Free Campus Policy**

It is the policy of Tacoma Community College that smoking or the use of tobacco products is prohibited on all college premises.

Smoking materials must be extinguished and properly disposed of prior to entering college premises or exiting a vehicle. Improper disposal includes, but is not limited to, spitting smokeless tobacco product, littering (e.g., discarding cigarette butts, throwing cigarette butts out of windows, leaving spit containers), and anything that creates a fire hazard.

The sale of tobacco products or tobacco related merchandise is prohibited on College property. This includes the free distribution (sampling) of tobacco products and associated products. Sponsorship of campus events by organizations that promote tobacco use is prohibited. Advertisement of tobacco products at campus events is prohibited regardless of sponsorship. Additionally, TCC shall neither solicit nor accept any grant, gift or anything else of value from a manufacturer, distributor or retailer whose principal business is tobacco products.

Exceptions to this policy for cultural or artistic purposes require prior written approval of the college president or designee.

## **Marijuana Use on Campus**

Even though limited personal possession and use of marijuana is legal in Washington State, it is illegal on the TCC campus. Because the college receives federal funds we must adhere to federal policy in regard to possession and use of marijuana and other drugs.

Being under the influence, use, possession, manufacturing or distribution of marijuana, including medical marijuana, is a violation of the TCC Code of Student Conduct and will result in disciplinary action.

## **Substance Abuse**

In accordance with provisions of the Drug-Free Schools and Communities Act of 1986 (Public Law 99-570) and its amendments of 1989, Tacoma Community College provides substance abuse education, resources, information, and referrals focusing on the prevention and treatment of substance abuse.

Information on substance abuse prevention is available in the Counseling Center, Bldg. 7. This information covers the many health risks associated with the use and abuse of illicit drugs and alcohol, which include liver damage, heart disease, ulcers, brain damage, malnutrition, cancer, and damage to a developing fetus. These risks may adversely affect one's learning environment, work and personal life.

Student use, possession or distribution of alcoholic beverages, narcotic drugs, or controlled substances or being under the influence of alcohol or illicit drugs on campus or at any college-sponsored event is prohibited. (Exceptions for use of alcoholic beverages may be made with permits and by approval of the college president.) Violations of this policy by any student may result in disciplinary warning, probation, suspension or expulsion. In addition, state and federal laws make possession or distribution of illicit drugs and alcohol a crime subject to imprisonment, fine or both.

# Student Policies and Notices

## TCC is a Weapons Free Campus

Tacoma Community College seeks to maintain a welcoming and safe educational and learning environment for students, employees, and visitors. TCC does not allow weapons on its property, which includes any vehicle, building, classroom, laboratory, artistic venue, athletic venue, entertainment venue, all college-related organization property whether leased or owned by TCC, and all TCC-officially-recognized organization property whether leased or owned by TCC and any real property, including parking areas, sidewalks, and common areas under the control of TCC.

No person covered by this policy, unless authorized by law or specifically exempted by federal or state law or TCC regulation, is authorized to have in their possession a firearm, weapon or explosive at a time when engaging in TCC-related business or activities on TCC property referenced in WAC 132S-50-280:

1. It shall be the policy of this college that possession of weapons apparently capable of producing bodily harm and/or property damage is prohibited on or in college facilities or college-leased facilities.
2. Explosives are prohibited on or in college facilities or leased college facilities.
3. Carrying of firearms on or in college facilities or college-leased facilities is prohibited except and unless the firearm is registered with the campus security department for a specified period of time.
4. The aforementioned regulations shall not apply to equipment or materials owned, used or maintained by the college; nor will they apply to law enforcement officers.

The provisions do not apply if the possession of the firearm or weapons is:

- Carried by a law enforcement officer from an external agency conducting official business at TCC.
- A simulated firearm, or weapon may be authorized and permitted for educational purposes in connection with TCC-related research, teaching or theatrical production, (e.g., stage play or film production, or rehearsals for them), from the appropriate Vice President or designee.

A student who violates this policy will be asked to remove the weapon from campus immediately and will be subject to disciplinary action pursuant to the Code of Student Conduct. Further, TCC may contact the appropriate law enforcement agency if it learns that a student has violated or is violating the policy. The student may also be subject to arrest.

An employee who violates this policy will be asked to remove the weapon from campus immediately and will be subject to disciplinary action, up to and including termination of employment. Further, TCC may contact the appropriate law enforcement agency if it learns that an employee has violated or is violating the policy. The employee may also be subject to arrest.

A person other than an employee or student who violates this policy will be asked to remove the weapon from campus immediately. Further, TCC may contact the appropriate law enforcement agency if it learns that such person has violated or is violating the policy. Such person may also be subject to arrest.

Violations may result in referrals to external law enforcement agencies.

## EXCLUSIONS

1. This policy does not apply to law enforcement officials duly authorized to carry such weapons.
2. Persons employed in the Army, Air Force, Navy, Coast Guard or Marine service of the United States or any member of the Washington National Guard when in the discharge of their official duties and acting under orders requiring them to carry arms or weapons.
3. Civil officers of the United States in the performance of their official duties.
4. Armored guards in the performance of their duties of picking up and dropping off money.

# TCC Instruction

## Learning Outcomes

TCC has a responsibility to the larger community to guide its students toward becoming thoughtful, skilled, contributing citizens. To that end, we have developed outcomes that we expect every degree recipient to meet. Yet much of what we hope students learn is not easily measurable, nor is it necessarily completed when they acquire a degree here.

Intellectual curiosity and creativity, appreciation for a broad education, respect for self and others, a strong ethical conscience, resourcefulness in the face of change - these are qualities that may take time to develop, and may be attained beyond TCC in communities, work places, and other institutions of higher learning.

We take seriously our role in nurturing these qualities in our students and we try to cultivate in our graduates an awareness that the degree they earn here is not the end of their learning, but a beginning. While students attend TCC, we hold ourselves accountable both to them and to the wider community for the following degree-related learning outcomes.

## Degree Learning Outcomes

Upon completing a degree at Tacoma Community College, students will be able to:

- **Core of Knowledge (COK)**

Demonstrate a basic knowledge of each of the distribution areas (Written Communication, Humanities, Quantitative Skills, Natural Sciences and Social Sciences) or, as applicable, specific professional/technical content, and program-level content and apply this knowledge to academic endeavors.

- **Communication (COM)**

Listen, speak, read, and write effectively and use nonverbal and technological means to make connections between self and others.

- **Critical Thinking & Problem Solving (CRT)**

Compare, analyze and evaluate information and ideas to solve problems.

- **Information & Information Technology (IIT)**

Locate, evaluate, retrieve and ethically use relevant and current information of appropriate authority for academic or, as applicable, specific professional/technical applications.

- **Intercultural Collaboration & Diversity (ICD)**

Demonstrate successful application of an interdependent, diverse, and multicultural worldview through collaborative engagement.

- **Responsibility & Ethics (RES)**

Demonstrate an understanding of what constitutes responsible and ethical behavior toward individuals, the community, and the environment.

# Library and Learning Innovation

## eLearning Support

TCC's eLearning department provides online technology assistance, laptop and equipment checkout, multimedia production services, and innovative student workspaces to support student success.

The Information Commons computer lab and multimedia Studio in Bldg. 16 provide students with space and technology to study, collaborate, create, and thrive in a contemporary learning environment.

## ONLINE COURSES

Providing flexibility to accommodate various student schedules, online courses are offered via the internet in web-enhanced, hybrid, and full online formats. Online courses meet students' educational goals to complete degrees, update job skills, and for personal enrichment.

In addition to online courses, TCC provides online student enrollment services and support to assist students with eLearning technical issues. For technical support call 253-566-5176 or email [support@tacomacc.edu](mailto:support@tacomacc.edu). For additional information visit [tacomacc.edu/academics-programs/academic-support/elearning/](https://tacomacc.edu/academics-programs/academic-support/elearning/). Also refer to information in your Canvas courses.

## MULTIMEDIA PRODUCTION STUDIO

TCC's Multimedia Production team delivers multimedia resources and support for classes and events held at the college. Staff assist students and faculty to digitize materials, create digital media content like video, podcasts, and interactive media. Our newly launched recording studio allows students to access professional-grade recording equipment, including a green screen wall, to create a variety of video presentations. The Learning Innovation Media Production Team offers support and basic training for non-linear editing

software like Final Cut Pro, Adobe Premier, iMovie and Movie Maker. Staff offer support and training for lecture capture software, and assists in the distribution of multimedia content in digital or physical formats.

## INFORMATION COMMONS STUDENT COMPUTER LAB

TCC's Information Commons (Bldg.16) provides 40+ student computers (Windows and Mac workstations) with internet access, Microsoft Office, and additional course software. Our two group study rooms are available for student reservation. For students with their own mobile devices, the Information Commons is furnished with charging stations across an open seating area. Comfortable seating and movable chairs and tables, provide more flexibility for collaboration and group work. Software is available to accommodate students with disabilities. Help Desk staff answers student questions concerning lab hardware and software. Equipment such as laptops, projectors, digital camcorders, and digital still cameras are available for checkout, as well. To reserve equipment, visit [tacomacc.libcal.com/reserve/librarylaptops](https://tacomacc.libcal.com/reserve/librarylaptops). For support, students can email [support@tacomacc.edu](mailto:support@tacomacc.edu) or call 253-566-5176.

## Library

The TCC Library (Bldg. 7) provides access to research materials, technology, instruction, study space and a variety of services that support teaching and learning for TCC students, faculty, and staff. Available resources include:

- Laptops, headphones, and other technology available for checkout. To reserve equipment, visit [tacomacc.libcal.com/reserve/librarylaptops](https://tacomacc.libcal.com/reserve/librarylaptops).
- Open Education Resource (OER) support for students, staff, and faculty
- Individual assistance with research projects from faculty librarians in person, by email, or chat
- Information literacy class sessions tailored to help students with specific research projects
- Electronic research guides tailored to specific research assignments
- Two-credit research courses taught by faculty librarians
- Online research databases available 24/7 with a wide variety of full text articles from magazines, journals, and newspapers
- Print books, ebooks, and textbook reserves available for student checkout
- English as a Second Language and English for Academic Purposes reading collections
- Individual and group study space including three group media rooms with large screen monitors and advance online booking
- Over 80 computers with Microsoft Office programs, wireless internet access, and technology support
- Copiers, scanners, and black-and-white and color printers available

To access electronic research databases, research tutorials, current hours and contact information, visit the student portal or [tacomacc.libguides.com/TCCLibrary](https://tacomacc.libguides.com/TCCLibrary).



## Library and Learning Innovation

### Student Learning Centers

TCC's Student Learning Centers support individualized learning and computer-based learning through individual and group tutoring.

#### BUSINESS EDUCATION CENTER

TCC's Business Education Center (BEC) provides:

- Individual and group drop-in or appointment tutoring
- Tutoring in business subjects, including accounting, business algebra and calculus, statistics, computer user courses, information technology, and economics
- A place to study, do homework, and use computers

The BEC is located in Bldg. 16.

For information on hours, making appointments, and contact information, go to [tacomacc.edu/bec](https://tacomacc.edu/bec).

#### DEDICATED TUTORING

Dedicated tutoring provides in-class peer support and one-on-one tutoring for developmental English and math courses.

- Dedicated tutors are peer educators who attend class alongside students.
- Dedicated tutors provide in-class tutoring.
- Dedicated tutoring assists students in developing new learning strategies.
- Dedicated tutoring provides a bridge to utilizing other on-campus services, such as the MARC and WTC, where Dedicated tutors provide one-on-one tutoring outside of class.

#### GIG HARBOR CAMPUS LEARNING RESOURCE CENTER

TCC's Gig Harbor Campus Learning Resource Center provides a student computer lab, tutoring, and other resources including transfer materials, tutoring handouts, and scholarship information.

#### MATH ADVISING RESOURCE CENTER

TCC's Math Advising Resource Center (MARC) is a student learning center devoted to helping TCC students be successful in math courses. Resources available in the MARC include:

- Study areas
- Drop-in tutoring
- Math placement & advising
- Books, calculators and whiteboards
- Computer lab equipped with math software
- Quarterly graphing calculator rentals

The MARC is located in Bldg. 19, Room 22. Visit [tacomacc.edu/marc](https://tacomacc.edu/marc).

#### SUPPLEMENTAL INSTRUCTION (SI)

Supplemental Instruction (SI) provides peer support and a series of weekly guided study sessions for students taking historically difficult courses. SI is provided for all students who want to improve their understanding of course material and improve their grades.

- Students wishing to take courses that include the SI program can check the online quarterly course schedule for courses identified as including "Instructional Support" and include "Supplemental Instruction" in the course attributes.
- Participation is voluntary, free, and open to all students
- SI can help students develop essential academic and learning skills in their courses
- SI sessions begin during the first or second week of the quarter, before students encounter academic difficulties
- SI leaders do not lecture; instead they direct collaborative learning exercises that encourage students to take responsibility for processing course content and developing study strategies

- In schools around the world, SI students earn higher final course grades and withdraw less often than non-SI participants

#### WRITING AND TUTORING CENTER

TCC's Writing & Tutoring Center (Bldg. 7) offers students tutoring for a wide range of course and subjects:

- Individual tutoring appointments and drop-in help in math, physics, astronomy, music, computer science, chemistry, engineering, biology, social science, English, reading, EAP/ESL, ABE, World Language and HSP courses
- Assistance in developing new learning strategies, understanding concepts, learning good study habits, studying for exams, and understanding one's own learning process
- Writing assistance at any stage of the writing process
- Drop-in help in the Grammar and Science Corners
- Computers for drafting, research, and computer-assisted tutorials
- English speaking practice in conversation groups
- Online tutoring through eTutoring
- Tutor training and certification
- Credit courses include WRITE 096 Writing Tutorials and WRITE 140, 141, and 142 Writing Tutor Practicum

For hours, information on making appointments, and contact information, visit [https://www.tacomacc.edu/academics-programs/academic-support/tutoring\\_centers/writing-tutoring-center](https://www.tacomacc.edu/academics-programs/academic-support/tutoring_centers/writing-tutoring-center).

# Learning Formats

In addition to diverse classroom offerings, Tacoma Community College provides a wide range of alternative learning formats in the same subjects taught in the traditional classroom. Courses provided in the following formats are identified in TCC's online class schedule.

## Online Courses

Students can earn college credits, enroll for career training courses, and complete TCC's Associate of Arts degree online. Online course formats include full online courses, hybrid online courses, and web-enhanced courses. Non-credit online courses are also offered.

- **Online courses** provide instructional content via the internet. All instruction is offered online. Students interact with instructors and other students using our learning management system, Canvas. Online courses may contain online lectures, multimedia content, discussion boards, and a variety of remote collaboration tools. Some full online courses require proctored exams.
- **Hybrid online courses** combine online learning with traditional classroom instruction. Students are required to attend a reduced number of class meetings on the TCC campus as well as work online.
- Students enrolled in **online/lab courses** attend an on-campus orientation before using web-based instructional materials. Instructor assistance is available at scheduled hours in a computer lab.
- **Web-enhanced courses** are traditional, on-campus, classes with additional information and resources provided online.

One-time-per-quarter non-refundable account fees are attached to all TCC's full online, hybrid online, and web

enhanced courses. For more information, including computer requirements and answers to frequently asked questions, visit [tacomacc.edu/academics-programs/academic-support/elearning/online-courses](http://tacomacc.edu/academics-programs/academic-support/elearning/online-courses).

## Computer-Mediated Learning

Many developmental math courses are offered in a computer-mediated format (designated with "CM" in the section number of the class). Students meet regularly with instructors in hands-on computer classrooms.

Students learn by using computer software under their instructor's direction, often working independently or in small groups. Students are required to complete material within a time line established by the instructor. Additional time is required working on a home computer or in a TCC computer lab.

## Student Learning Communities

Learning communities are groups (cohorts) of students who take two or three courses together. In this dynamic model, teachers work together to create connections between classes and assignments, and students are given extra support. Learning communities offer needed credits for students' chosen majors and help students to build relationships with others in their chosen pathway. Courses often include contextualized projects that link content to student realities and their communities, and students benefit from the supportive network with other students, peer mentors, and professors.

All students are advised to take at least one learning community, particularly during their first year at TCC, as part of their degree program.

Regularly offered learning communities are identified in the quarterly schedule.

## Experiential Learning

### INTERNSHIPS

All TCC's career training programs include internship or clinical components. Students pursuing transfer degree programs may enroll in the EXPLR 290 Internship for elective credit. Internships allow students to earn college credit through on-the-job workplace learning. Practical work experience helps students develop skills and personal attributes to improve their job opportunities. For more information, visit the Career Center, Bldg. 7, or call 253.566.5191.

### SERVICE LEARNING

The Service Learning format integrates course content with relevant community service. Through assignments and class discussions, students critically reflect on their service in order to increase their understanding of course content, gain broader appreciation of the discipline, and enhance their sense of civic responsibility.

### PRIOR LEARNING ASSESSMENT THROUGH A PORTFOLIO (PLA)

Tacoma Community College serves a diverse community of learners, many of whom have acquired previous learning through life experiences, including work, training, and independent study. These adults come to the college ready to demonstrate what they already know and can do.

PLA credits are noted on TCC transcripts as the TCC equivalent courses. Credit usually is awarded only if TCC offers an equivalent course. However, if the PLA experience can be shown to have direct application to a student's technical program the credit may be posted to the student transcript as elective credit.

If PLA credit is based on an articulated agreement, a letter grade is assigned conforming with the agreement. Other

## Learning Formats

PLA credit is posted with a grade of 'S' for satisfactory pass.

Some students are granted prerequisite waivers rather than credit for prior learning. In these cases notations are made that the prerequisites have been satisfied, but no credit is posted to transcripts.

Students must be currently enrolled before prior learning assessment is initiated. PLA credits are posted at the end of the quarter in which the PLA requirement is satisfied. PLA credits are not considered enrolled credits and are not counted in calculating students' enrollment status or financial aid awards.

Transfer colleges and universities evaluate PLA credits based on their own institutional policies.

Students interested in petitioning for credit through portfolios should enroll in EXPLR 190 E-Portfolio. For more information, contact the Career Center, Bldg 7, or call 253-566-5191.

### Institutional Assessments

#### USE OF STUDENT ARTIFACTS

While you are a student at TCC, some of your student assignments may be referenced as artifacts and analyzed in conjunction with the college seeking accreditation renewal; needing to demonstrate evidence of expected performance; subjecting itself to external review by accrediting bodies; and/or sharing best practices and lessons learned with other higher education professionals. By attending classes at TCC, you agree to allow access and reference to your assignments, usage patterns, share content, and/or information as needed to facilitate such processes and the continuous improvement of college programs.

## College Degrees

Tacoma Community College grants the following college degrees:

- College transfer associate degrees: Awarded for completion of a transfer curriculum paralleling the first two years of college study.
- Associate in Applied Sciences: Awarded for completion of an approved TCC career training program. Upon completion of an AAS degree, students may continue their education and work toward a Bachelor of Applied Science degree in a variety of majors at a number of Washington State Community and Technical Colleges. In some cases, articulation agreements with specific universities may enable transfer.
- Associate in General Studies: Awarded for completion of a two-year academic program designed to meet a particular educational goal.
- Bachelor of Applied Science: The Applied Baccalaureate (BAS) is a two-year baccalaureate completion program for students who already hold an AAS. The BAS degree builds on knowledge and skills learned in completion of an associate degree, allowing students to obtain bachelor-level credentials in a specialized career field.

### Requirements for All Degrees

General requirements for all degrees are:

- A combined cumulative college-level grade point average of 2.00 in TCC and transferred-in college-level coursework. College-level courses are numbered 100 and above at TCC. Course numbering at other colleges may vary. For questions regarding transfer credit, see the credential evaluator, Bldg. 7.
- A cumulative college-level grade point average of 2.00 in course work completed at Tacoma Community College.
- At least 30 applicable credits must be earned at Tacoma Community College.

Advisors will assist students in understanding these requirements, but final responsibility for meeting all academic and graduation requirements rests with the individual student. See Grade and Academic Policies on page 37.

## College Degrees

### Credits Transferred to TCC

Students may apply a maximum of 60 transferred in credits to their Tacoma Community College degree or certificate, and 150 transferred in credits to their Bachelor of Applied Science degree.

Tacoma Community College honors academic credits earned at other regionally accredited institutions that are equivalent in academic level and learning outcomes to credit (or courses) offered at TCC.

The college subscribes to the statewide policy on transfer credit among Washington public colleges and universities approved by the State Board for Community and Technical Colleges. For more detailed information about transfer credits, contact the Enrollment Services office, Bldg. 7.

Students are encouraged to submit official transcripts from previous institutions attended as soon as they are enrolled in their first quarter. Credit evaluations usually take up to three months to complete. Students must be currently enrolled and fill out a "Request for Evaluation" form available at Enrollment Services, Bldg. 7. Transfer coursework will not be used to satisfy degree requirements until official transcripts have been evaluated. One semester credit hour is equivalent to one and one-half quarter credit hours.

### Transfer among Washington State Community & Technical Colleges

Washington State Community and Technical Colleges have adopted an Inter-College Reciprocity Policy designed to help students transfer courses that meet distribution requirements at one community or technical college to another. This policy does not address transfer of courses between two-year and four-year colleges.

- Individual Courses: If a student transfers an individual course that meets a Communication Skills, Quantitative Skills or Distribution Requirement for a specific transfer degree at the sending two-year college, that course is considered to have met the TCC requirement for a similar transfer degree, even if the course does not have an exact equivalent at TCC.
- Distribution Areas/Specific Requirements: TCC will accept an entire Distribution, Communication Skills, Quantitative Skills or other requirement for a transfer degree as met if that student has met certain requirements. A student can also meet their multicultural requirement through this process. It is the student's responsibility to initiate the reciprocity process.
- It is the responsibility of the student to notify the college if transfer courses fall into the Inter-College Reciprocity Policy. Complete the Reciprocity Form available in Enrollment Services, Bldg. 7.

### Credits Transferring from Tacoma Community College

#### TRANSFER OF CREDITS

Tacoma Community College's credit courses fall into three general categories:

- College Transfer
- Career Training
- Transitional Studies

Courses that fulfill requirements for university transfer degrees are generally transferable to four-year colleges and universities (baccalaureate institutions). General education courses that are taken to meet requirements for career training degrees are transferable. Courses that are specific to career training programs are not transferable to four-year institutions unless a specific articulation agreement, providing for acceptance of those courses, exists between TCC and the four-year institution. Courses included in TCC's Transitional Studies program numbered below 100, are not considered college-level and do not transfer.

Each baccalaureate institution maintains its own policies on acceptance of credits for transfer. While TCC advisors make a good faith effort to assist students with the transferability of courses, TCC is not responsible for acceptance of credits and courses at other institutions.

General acceptance of transfer credits is not the same as direct course equivalency. Baccalaureate institutions may accept credits for transfer but not consider them directly equivalent to their own courses or count them as meeting specific requirements at their institutions.

#### TRANSFER OF DEGREES

Tacoma Community College offers two-year degrees designed to transfer to four-year colleges or universities. See College Transfer section for these transfer degrees. These degrees are directly transferable to most Washington

## College Degrees

baccalaureate (four year) institutions. TCC, along with 30 community colleges and 20 four-year Washington colleges and universities, subscribes to the Policy on Intercollege Transfer and Articulation among Washington Public Colleges and Universities ([sbctc.edu](http://sbctc.edu)).

### Changing Degree Requirements

When degree requirements change while a student is enrolled at Tacoma Community College, the college will adhere to the following policy:

If the degree is completed within five years of the student's original enrollment date, the student may choose to graduate under the provisions of the TCC degree requirements in effect when he or she originally enrolled at TCC. For Bachelor of Applied Science students the enrollment date begins when they are accepted into the specific BAS degree program.

If the student transfers to TCC with a minimum of 55 credits, the student may choose to graduate under the provisions of the TCC degree in place at the time they enrolled at the transfer college as long as the college is accredited by the Northwest Commission on Colleges and Universities or other accrediting body duly recognized by TCC, and within five years of their graduation date.

The college encourages all students to fulfill the degree requirements in effect at the time of their graduation. Students who do not complete their degree requirements within five years must fulfill the requirements in effect when they graduate.

### Multiple Degrees

A student may earn more than one degree from Tacoma Community College. In addition to meeting the specific requirements for each degree, a candidate must earn an additional 30 credits for each additional degree. (Example: 90 credits for a first degree, 120 credits for a second degree, and 150 credits for a third degree). 50 credits must be earned in residence at Tacoma Community College for a student to be eligible to receive two degrees.

### Application for Degrees or Certificates

Students preparing for graduation must complete formal applications for degrees or certificates. Application forms are available from Enrollment Services, Bldg. 7 and online on the college website and on the student portal. A completed application form, signed by the advisor or program coordinator, must be on file at Enrollment Services no later than two weeks prior to the end of the quarter in which a student plans to graduate. Students applying to graduate with the Associate of Arts degree, Option B, must also complete Option B application forms, which must be signed by advisors. See additional information under Option B Degrees.

Prior to submitting the Application for Degree, students are advised to carefully review with their faculty advisors degree requirements published in the college catalog to ensure that all requirements have been satisfied. Applications for degrees are reviewed and approved quarterly. Transfer students must have official copies of all transcripts from other colleges on file in Enrollment Services, Bldg. 7, prior to applying for degrees.

## Instructional Policies

### Credit Hours and Quarter

The college measures its course work by credit hour. Courses offered each quarter are assigned credit value based on the number of hours the classes meet each week; however, some courses require additional laboratory time, and activity courses typically require additional hours per week. When planning their quarterly course loads, students should plan for an additional two hours of study time for every hour spent in class.

Students who wish to enroll for 20 or more credit hours must request advisor permission. Forms for this purpose are available in the Counseling and Advising Center, Bldg. 7.

TCC's academic year is divided into four quarters. See the Instructional Calendar (page 5) for specific quarter start and end dates.

### INSTRUCTIONAL AND CALENDAR DAYS

The quarter's instructional and calendar days are referenced in various policies. Instructional days are those days starting with the first day of the quarter on which the campus is open, and counting each day classes are held through the last class day of the quarter. Holidays when classes are not in session and weekends are not counted when calculating deadlines based on instructional days.

Some deadline dates are based on calendar days. For example, the last day to drop a class with a grade of 'W' is the 55<sup>th</sup> calendar day of the quarter. These deadline calculations include weekends and holidays.

## Instructional Policies

### Student Status

Tacoma Community College's degree programs are structured with the expectation that students who intend to complete associate degrees within two years, will enroll for an average 15 college-level credits each quarter.

- **FULL-TIME STUDENT**  
A student registered for 12 or more credits in a given quarter
- **PART-TIME STUDENT**  
A student registered for fewer than 12 credits in a given quarter.
- **FIRST-YEAR STUDENT**  
A student who has earned fewer than 45 college-level credits.
- **SECOND-YEAR STUDENT**  
A student who has earned 45 or more college-level credits.
- **AUDITING STUDENT**  
A student who registers for a class for no credit and pays the standard tuition and fees for the class. See Course Audit (page 38) for more information.
- **NON-DEGREE SEEKING STUDENT**  
A student attending TCC for purposes other than to obtain a degree or certificate. Non-degree seeking students are restricted to registration for five credits or fewer per quarter and are self-advised.

### Transcripts

A transcript is a complete record of a student's academic achievement at Tacoma Community College. Students may request official transcripts online or at the Enrollment Services office, Bldg. 7.

Unofficial transcripts for advising purposes are available online or at the Cashier's office in Bldg. 14.

All outstanding fees and/or fines must be paid before transcripts will be released. Picture ID is required to order and pick up transcripts. Transcripts will not be released to third parties without students' written permission.

For transcript fees and information on how to request transcripts by mail or online call 253-566-5325, or go to the college website.

#### TRANSCRIPTS FROM OTHER SCHOOLS

Tacoma Community College does not release or certify copies of transcripts received from other institutions. Transcripts documenting students' prior secondary and college education are part of their official files and will not be returned to them. Students who want transcripts of work completed at other institutions must order transcripts directly from those institutions.

Official transcripts from other institutions must be received by TCC from sending institutions electronically or in unopened, sealed envelopes. For more information about transfer credit see Credits Transferred to TCC (page 33).

### Nationally-Recognized Exams

#### ADVANCED PLACEMENT

Tacoma Community College grants credits to entering first-year students who have earned scores of 3 or higher on the Educational Testing Service's (ETS) Advanced Placement Tests. Students who wish to receive advanced placement credits must send their ETS test scores to TCC's credential evaluator for evaluation. The number of credits and grades of 'S' recorded for all courses for which credit is granted will be noted on the transcript. Advanced placement credits fulfill either distribution or elective requirements for an associate degree.

The chart at this link ([tacomacc.edu/attachments/costs-admission/ap\\_tcc\\_equivalency\\_table.pdf](https://www.tacomacc.edu/attachments/costs-admission/ap_tcc_equivalency_table.pdf)) represents the minimum credit/courses awarded for each Advanced Placement (AP) exam, recognized by all community and technical colleges in Washington.

Students interested in transferring to a four-year university should check the requirements of their target school to determine the best way to use their AP exam credits.

Advanced placement credits may be granted in other subjects upon consultation with appropriate department chairs. For more information, contact the credential evaluator in Enrollment Services, Bldg. 7.

## Instructional Policies

### INTERNATIONAL BACCALAUREATE (IB)

International Baccalaureate students who have earned successful IB Higher-Level test scores may request college credit for IB higher-level (HL) work. No college credit is given for Standard Level (SL) course work. TCC academic departments evaluate students' individual records prior to awarding advanced placement credit. Students should submit official test scores for evaluation to Enrollment Services, Bldg. 7.

Subject	HL Test Score	College Credit
Chemistry	6	No credit, exemption from CHEM& 161. Placement into CHEM& 162.
Chemistry	7	No credit, exemption from CHEM& 161, CHEM& 162. Placement into CHEM& 163.
Math	5	MATH& 141
Math	6	MATH& 142
Math	7	MATH& 151
Physics	6 or above	Dept. evaluation required

### CLEP

Tacoma Community College grants up to 30 credits toward the Associate of Arts or Associate of Science degrees. In accordance with national CLEP recommendations, Tacoma Community College will offer credit for World Languages and Sociology as follows:

CLEP ASSESSMENT	CLEP SCORE	TCC CREDITS AWARDED
Introductory Sociology	50 or higher	SOC& 101 Introduction to Sociology, (5 credits)
Spanish Language	50 or higher	SPAN& 121, SPAN& 122, SPAN& 123 Spanish 1, Spanish 2, Spanish 3 (15 credits max.)
Spanish Language	68 or higher	SPAN& 221, SPAN& 222, SPAN& 223 Intermediate Spanish 1, 2, 3 (15 credits max.)
German Language	50 or higher	GERM& 121, GERM& 122, GERM& 123 German 1, German 2, German 3 (15 credits max.)
German Language	68 or higher	GERM& 221, GERM& 222, GERM& 223 Intermediate German 1, 2, 3 (15 credits max.)

*NOTE: Students need to be enrolled as students at Tacoma Community College to qualify for credit. Credit cannot be granted for courses for which students have already earned academic credit and a grade. Students should check the CLEP policies at the intended transfer institutions and ensure that CLEP credit awarded by TCC will be recognized by the other university before considering taking the CLEP and requesting credit through TCC.*

Tacoma Community College grants up to 30 credits toward the Associate in General Studies degree to students who score at the 50th percentile or above on the CLEP General Examination.

Credit may be granted for other degrees and for CLEP Subject Examinations with division or department chairperson approval. Students should submit official test scores for evaluation to Enrollment Services, Bldg. 7.

## Instructional Policies

### Articulation Agreements

#### COLLEGE IN THE HIGH SCHOOL PROGRAM

TCC develops articulation agreements with local school districts that permit students to earn college credit completing approved courses at their high schools. For more information, visit [tacomacc.edu/academics-programs/college-high-school/tccinhighschool](http://tacomacc.edu/academics-programs/college-high-school/tccinhighschool).

#### SERVICE MEMBER'S OPPORTUNITY COLLEGE (SOC)

Tacoma Community College has been designated by the Department of Defense, in cooperation with the American Association of Community Colleges, as a participant in the Service Members Opportunity College. The SOC, as implemented at Tacoma Community College, seeks to increase access to higher education for active and retired military personnel by:

- Accepting a maximum of 45 quarter-hour credits from military service schools
- Military credits are transferred in by ACE Guide recommendations

### Other Options

#### DEPARTMENTAL CHALLENGE EXAM

Students enrolled for five or more credits may earn additional credits in some courses by challenge examination, if the appropriate academic department has developed an examination for the course to be challenged. All arrangements, including fee payment, must be completed within the first ten instructional days of a quarter.

Students who successfully challenge courses will receive 'S' grades. Course challenge application forms are available in Enrollment Services, Bldg. 7.

## Grades and Academic Policies

### Grading Policies

Tacoma Community College uses the following grading system and grade-point values for reporting and recording academic achievement. Faculty may or may not choose to use the plus/minus grading option for any given class.

Grade	Description	Grade Points
<b>A</b>	Honor	4.0
<b>A-</b>		3.7
<b>B+</b>		3.3
<b>B</b>	Good	3.0
<b>B-</b>		2.7
<b>C+</b>		2.3
<b>C</b>	Average	2.0
<b>C-</b>		1.7
<b>D+</b>		1.3
<b>D</b>	Minimum	1.0
<b>E</b>	Failure to complete minimum requirement	0.0
<b>IP</b>	In Progress (used only by the Basic Skills Department)	0.0
<b>W</b>	Official withdrawal from course. No credit, no grade point. <i>Applies 11<sup>th</sup> through 55<sup>th</sup> calendar day *</i>	0.0
<b>WI</b>	Instructor approved withdrawal. No credit, no grade point. <i>Applies after 55<sup>th</sup> calendar day *</i>	0.0
<b>V</b>	Unofficial withdrawal <i>Student commenced attendance, then stopped attending before instructor had sufficient data to evaluate. Instructor reports last date of attendance on grade sheet.</i>	0.0
<b>I</b>	Incomplete (see Incomplete Grade for more detail)	0.0
<b>S</b>	Satisfactory (credit only, no grade point)	0.0
<b>U</b>	Unsatisfactory (no credit, no grade point)	0.0
<b>N</b>	Audit (see Course Audit for detail)	0.0
<b>R</b>	Repeat R beside lowest grade (Legacy system)*	0.0
<b>Z</b>	Unofficial withdrawal with zero attendance	0.0

A, B, C, D and S grades are considered passing. 'S' and 'U' identify courses taken on pass/fail basis and are not counted in computing grade point averages. 'S' is given only if the student performed at a grade of 'C' or higher. For more detailed information see Satisfactory/Unsatisfactory Grade below. An 'E' grade is not considered passing and does not earn credit toward a degree or certificate.

\* R grade only shows up in Legacy transcripts. No longer used in ctLink.



## Grades and Academic Policies

### FINAL COURSE GRADE

#### APPEAL PROCESS

Students who believe a final course grade has been awarded incorrectly or in error, can address the discrepancy by following the Final Course Grade Appeal Process. The procedure is available in the office of the Vice President for Student Affairs or at the college website.

#### INCOMPLETE GRADE

An 'I' grade is given at the instructor's discretion when a student has completed more than 60 percent of the quarter and has a plan to finish remaining course work. The student and instructor must fill out a contract form that identifies specific requirements to be completed, the time allowed for completion, and the grade to be assigned if the contract is not completed. One copy of the contract is retained by the instructor, one given to the student, and one given to the department chair or division dean. An 'I' grade will revert to 'E' if not completed within one year.

#### SATISFACTORY/UNSATISFACTORY GRADE

Some classes, due to their nature and content, are designated 'S/U' by departmental decision and are graded on an 'S/U' basis. In some other classes, students have the option of choosing an 'S/U' grade. An 'S' grade indicates student performance at a 'C' grade level or higher. A 'U' grade indicates performance below a 'C' level. Neither the 'S' or 'U' are used in computing grade point averages. In order to exercise the 'S/U' option, students:

- Must choose the 'S/U' grade option in writing at Enrollment Services, Bldg. 7, by the 15<sup>th</sup> instructional day of the quarter.

- Must understand that once the choice for the 'S/U' grade has been made, it will not be changed to the regular letter grade option. Students should be aware that courses with 'S' grades may not satisfy transfer requirements. Some universities do not accept 'S' graded courses to satisfy distribution requirements. Students are urged to confer with their advisors and consult with their transfer institutions.

#### COURSE REPEAT

Students (not enrolled in an Allied Health program with specific course repeat limitations) may repeat courses in which they have received grades of 'C' or lower.

Courses can be repeated no more than twice for a total of three enrollments.

In computing cumulative grade point averages, the higher grade earned for repeated courses will be used and recalculated into the student's cumulative GPA. Repeated grades remain on the student's transcript.

Students who plan to transfer should contact their transfer institutions to determine how repeated courses are calculated in applicants' admission grade point averages. Some institutions use all grades earned for repeated courses when calculating admissions grade point averages.

The Tacoma Community College grade point average reflects TCC work only. A student's grade point average cannot be improved by repeating a course elsewhere. If a student wishes to repeat a TCC course for a better grade, the course must be repeated at TCC.

#### COURSE AUDIT

The course audit option allows students to participate in courses without having credits or grades posted to their transcripts. Auditing students pay regular tuition and fees. Individual faculty members determine participation and attendance requirements for their courses. Audited courses are identified on transcripts by 'N' grades. If attendance or other requirements are not met, 'WI' grades indicate course withdrawal.

Students may not convert from audit to credit or from credit to audit after the 30<sup>th</sup> calendar day of the quarter. To select audit status, students must submit an audit form to Enrollment Services, Bldg. 7.

#### CHANGE OF GRADE

Students requesting a course grade change must contact their instructors. Instructors approve grade change requests by submitting grade change forms to Enrollment Services.

Grade changes must be made within two quarters (excluding summer) after the quarter in which the student was registered for the course. After two quarters, no grade changes are allowed, unless the instructor documents that the original grade was an error, and the division dean signs an approval. Grades for specific courses can be changed only once.

## Grades and Academic Policies

### ACADEMIC FORGIVENESS POLICY

With an advisor's written approval, a student may petition the Vice President for Student Affairs (or designee) to have Tacoma Community College course work set aside. Students should submit a completed Academic Forgiveness Petition form to the Student Affairs Administration office in Bldg. 7.

- The student must be currently enrolled.
- The forgiveness (set aside) date must be at least five years prior to the current quarter.
- All course work taken prior to the forgiveness date is set aside. The student may not elect to retain individual courses and set aside other courses.
- A student may exercise the Academic Forgiveness option only once.
- Complete the Academic Forgiveness Petition and submit it to the Student Affairs Administration office, Bldg. 7.

Forgiven course work is not used to determine number of credits earned at TCC, calculate cumulative grade point average or calculate honors. Forgiven course work may not be reinstated or used to satisfy prerequisite or degree requirements. Course numbers, titles, and original grades of all forgiven course work remain on student transcripts. A decision to set aside course work may or may not be honored by other colleges and universities, since each institution interprets transcripts using its own policies.

Financial Aid Note: Financial Aid regulations make no provision for academic forgiveness. Therefore, all courses applicable to a student's major will be included in evaluating a student's satisfactory academic progress for financial aid eligibility.

### Academic Review Policy and Procedures

Academic review is designed to help students in academic difficulty improve their academic performance.

The purpose of the policy is to quickly identify and alert students whose grade point averages fall below 2.00 and assist them in improving their academic standing. The Academic Review Policy provides for academic suspension in cases when students are unable to achieve satisfactory academic standing.

Specific college populations, including international students, Fresh Start students, veterans, and students receiving financial aid may be subject to different or additional academic standard requirements and appeal processes.

Students in these programs should contact program advisors regarding these requirements and processes.

### ACADEMIC WARNING

A student is placed on academic warning at the end of any quarter in which their quarterly grade point average falls below 2.00, provided the student is enrolled in six or more credits after the 10<sup>th</sup> instructional day of that quarter. No later than the second week of the subsequent quarter, the Registrar will notify the student that they are on academic warning. The student will be encouraged to take advantage of available campus resources to improve his or her academic standing.

### ACADEMIC PROBATION

A student placed on academic deficiency must earn a 2.00 quarterly grade point average the succeeding quarter he or she is enrolled for six or more credits after the 10<sup>th</sup> instructional day of that quarter, or be placed on academic probation. No later than the second week of the subsequent quarter, the Registrar will notify the student that he or she has been placed on academic probation.

### REMOVAL OF ACADEMIC PROBATION

A student is removed from academic probation at the end of the quarter in which he or she is enrolled for six or more credits after the 10<sup>th</sup> instructional day of that quarter and earns a quarterly grade point average of 2.00 or higher.

### ACADEMIC SUSPENSION

A student who has been placed on academic probation and fails to earn a 2.00 quarterly grade point average or higher the next quarter he or she is enrolled for six or more credits after the 10<sup>th</sup> instructional day of that quarter will be suspended for one quarter. As it applies to the period of academic suspension, summer quarter shall count as part of fall quarter.

The Vice President for Student Affairs will notify a student by mail by the first day of classes of the subsequent quarter that he or she has been suspended.

A student who has already enrolled for classes prior to suspension status being determined will be administratively withdrawn, and tuition paid will be refunded.

Following a one-quarter suspension, a student may enroll following procedures outlined in the college's Re-enrollment Procedures Following Academic Suspension available in the Student Affairs Administration office in Bldg. 7.

## Grades and Academic Policies

A student readmitted after one quarter of academic suspension re-enters the college on academic probation. If he or she fails to attain a quarterly grade point average of 2.00 or higher at the end of the first quarter in which he or she is enrolled in six or more credits after the 10<sup>th</sup> instructional day, the readmitted student is suspended for three consecutive quarters.

### APPEAL PROCEDURES

Academic suspension may be appealed to the Vice President for Student Affairs (or designee) if there are strong and unavoidable extenuating circumstances, such as serious illness or accident requiring hospitalization. A student will not be suspended during the course of the appeal process.

If a student on academic appeal status fails to attain a quarterly grade point average of 2.00 or higher at the end of the next quarter in which he or she is enrolled in six or more credits after the 10<sup>th</sup> instructional day of the quarter, the student will be academically suspended for three consecutive quarters. Appeal procedures are available in the Student Affairs Administration office in Bldg. 7.

### RE-ENROLLMENT PROCEDURES FOLLOWING ACADEMIC SUSPENSION

To re-enroll following an academic suspension, a student shall present a petition for re-enrollment to the Vice President for Student Affairs (or designee). The petition must include, but not be limited to, the following:

- A proposed class schedule for the coming quarter and a course list for two additional quarters
- Short-term (one to three quarters) educational goals
- Plans to improve academic standing

The student must meet with an advisor to review the petition and have the advisor sign the petition before it is submitted to the Vice President for Student Affairs.

The petition shall be filed with the Vice President for Student Affairs no later than one week before the start of classes for the quarter in which the student is seeking readmission to the college. After reviewing the student's academic record and petition, as well as other pertinent information, the Vice President shall decide to take one or more of the following actions:

- Permit the student to register according to his or her proposed program of studies and class schedule
- Impose conditions on the student's enrollment
- Require that the student undergo further academic assessment prior to registration
- Refer the student for learning assistance and/or counseling during the subsequent quarter

A student re-enrolling following academic suspension re-enters on probation. If he or she fails to attain a quarterly grade point average of 2.00 or higher the succeeding quarter he or she is enrolled for six or more credits after the 10<sup>th</sup> instructional day of that quarter, the student readmitted after suspension will be suspended for three consecutive quarters.

### ACADEMIC DISHONESTY

Students at Tacoma Community College are expected to be honest and forthright in their educational endeavors. Cheating, plagiarism, fabrication and other forms of academic dishonesty corrupt the learning process and threaten the educational environment for all students.

The consequences of academic dishonesty may vary with the situation and the individual instructor. All instructors will include in the course syllabus a policy on, and sanctions for, academic dishonesty. If a student is guilty of, or admits to, academic dishonesty, an instructor may impose sanctions up to and including administrative withdrawal from the course and/or an 'E' grade for the course.

It is the official policy of Tacoma Community College that cheating, plagiarism, fabrication, and other forms of academic misconduct are grounds for disciplinary action under the Code of Student Conduct. A student accused of academic dishonesty may be reported to the appropriate college official for initiation of disciplinary proceedings which could result in disciplinary sanctions ranging from a warning to expulsion from the college.

Definitions of academic dishonesty and descriptions of the hearing and appeal processes are included in the Tacoma Community College Administrative Procedure for Academic Dishonesty, available in all administrative offices.

Copies of the Code of Student Conduct are available in the office of the Vice President for Student Affairs in Bldg. 7.

## Honor Societies

### Phi Theta Kappa

Academic excellence is the primary hallmark of Phi Theta Kappa, an international honor society serving two-year colleges that offer associate degree programs. Prospective members must have 3.5 or better grade point averages to apply. PTK provides members opportunities to develop interpersonal communication and leadership skills, compete for special scholarships, and provide a variety of services to the college and community.

### Alpha Delta Nu Epsilon Iota Chapter

The objective of the OADN (Organization for Associate Degree Nursing) Honor Society shall be to recognize the academic excellence of students in the study of Associate Degree Nursing. Prospective members must have a 3.0 or better grade point average in all nursing courses to apply. The society shall encourage the pursuit of advance degrees in the profession of nursing as well as continuing education as a life-long professional responsibility.

## Graduation

Degrees are conferred at the end of each quarter. Commencement ceremonies are held annually in June, at the end of spring quarter.

All students who have earned degrees and/or certificates of 45 credits or more in the current academic year are invited to participate in the June commencement. Students within two courses or 10 credits of degree completion, who have enrolled in the required courses for summer quarter, may also apply to participate in commencement. For degree and early commencement applications, contact Enrollment Services, Bldg. 7.

### Graduation Awards

TCC students who have achieved outstanding grades are honored upon graduation. Awards for students who graduate with scholastic honors are designated by seals on their diplomas and noted on official transcripts. Students are eligible for the following honors or awards:

- Graduation with Honors – Students with graduation grade point averages of 3.33 to 3.65 for credits earned at TCC as well as for credits earned at other institutions and used to meet TCC degree requirements, and who have met award criteria described below graduate with “Honors.”
- Graduation with High Honors – Students with graduation grade point averages of 3.66 or higher for credits earned at TCC as well as for credits earned at other institutions and used to meet TCC degree requirements, and who have met the award criteria described below graduate with “High Honors.”

### Awards Criteria

#### GRADUATION WITH HONORS AND GRADUATION WITH HIGH HONORS

Grade point average computations for degrees and awards at graduation are based on all college-level credits (numbered 100 and above) earned at Tacoma Community College as well as credits used to meet degree requirements, which are transferred from other institutions.

For commencement, scholastic honors are computed using grades earned through the winter quarter preceding commencement. Changes in a student’s honor status are made to the student records if the last quarter of college work or grades earned from transfer credits affect a student’s qualifications.

# TCC College Transfer

Students interested in pursuing fields that require four-year degrees may complete the first two years of courses through enrollment in Tacoma Community College's comprehensive college programs. TCC provides freshman- and sophomore-level courses leading to bachelor's degrees at four-year colleges and universities. For specific major department requirements, students are advised to contact the four-year institutions to which they intend to transfer.

Washington four-year colleges have an increasing expectation that students will choose and prepare for their major field of study before transfer. Public colleges, such as the University of Washington-Seattle, that accept transfer students on a competitive-entry basis, consider "major readiness" to be an important acceptance criteria for transfer students. Transfer students should select majors and begin taking specific courses to prepare for their majors. Consult TCC advisors for more information on major readiness.

While TCC's dedicated counseling and advising staff assists students in selecting courses, the final responsibility for meeting graduation requirements rests with individual students.

## College Transfer Degrees

Tacoma Community College offers several specialized transfer degrees. Students planning to earn bachelor's degrees in the following specialized areas can complete associate degrees tailored to prepare them to transfer as efficiently as possible.

- Associate of Arts
- Associate of Arts, Option B
- Associate of Arts, LaEAP
- Associate of Arts, Specializations:
  - Anthropology
  - Art
  - Communication Studies
  - Elementary Education
  - Environmental Sustainability
  - History
  - Interdisciplinary Writing
  - Literature
  - Mathematics
  - Music
  - Political Science
  - Psychology
  - Sociology
  - Spanish
  - World Languages
- Associate of Arts in Biology
- Associate of Arts in Business
- Associate of Arts in Computer Science
- Associate of Music
- Associate of Arts in Pre-Nursing
- Associate of Science, Track I
  - Specializations:
    - Biology
    - Chemistry
    - Earth Sciences
    - Environmental Sciences
- Associate of Science, Track II
  - Specializations:
    - Astronomy
    - Atmospheric Science
    - Computer Engineering
    - Physics
- Associate of Science in Bioengineering and Chemical Engineering
- Associate of Science in Computer and Electrical Engineering
- Associate of Science in Material Science and Manufacturing Engineering
- Associate of Science in Civil and Mechanical Engineering
- Associate in General Studies

# College-Level Education (Transfer)

## Washington 45

The "Washington 45" is a list of courses that are accepted at all public colleges and universities in the State of Washington.

### LIST OF ONE YEAR TRANSFER COURSES

*Adopted: May 2012;  
Implemented: Fall 2012*

A student who completes courses selected from within the general education categories listed below at a public community, technical, four-year college or university in Washington State will be able to transfer and apply 45 quarter credits toward general education requirement(s) at any other public and most private higher education institutions in the state.

For transfer purposes, a student must have a minimum grade of 'C' or better (2.0 or above) in each course completed from this list.

Students who transfer Washington 45 courses must still meet a receiving institution's admission requirements and eventually satisfy all their general education requirements and their degree requirements in major, minor and professional programs. The list of courses in Washington 45 does not replace the Direct Transfer Agreement, Associate of Science Tracks I and II or any Major Related Program agreement, nor will it guarantee admission to a four-year institution.

NOTE: Although these courses are listed under categories, the actual course may satisfy a different general education category at a receiving institution.

1. Many private non-profit colleges and universities have distinct general education requirements. Students should check with institution(s) they plan to attend regarding application of transfer credits that will meet general education requirements.
2. Disciplines are sometimes called subject or subject matter areas and designated by a prefix (i.e. PHIL for Philosophy and POLS for Political Science).

### FIRST YEAR TRANSFER LIST OF GENERAL EDUCATION COURSES

- Communications (5 credits): ENGL& 101, ENGL& 102
- Quantitative and Symbolic Reasoning (5 credits): MATH& 107, MATH& 148 or MATH& 151
- Humanities (10 credits in two different subject areas or disciplines): PHIL& 101, MUSC& 105, or HUM& 101
- For colleges that use History as a Humanities: HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148
- Social Science (10 credits in two different subject areas or disciplines): PSYC& 100, SOC& 101, POLS& 101, POLS& 202
- For colleges that use History as a Social Science: HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148
- Natural Sciences (10 credits in two different subject areas or disciplines): BIOL& 100, BIOL& 160 with lab, ASTR& 101 with lab, CHEM& 110 with lab, CHEM& 121 with lab, CHEM& 161, CHEM& 162, ENV& 101, PHYS& 121, GEOL& 101 with lab.
- Additional 5 credits within the disciplines listed above can be taken.

## Transfer Rights and Responsibilities

### STUDENT RIGHTS AND RESPONSIBILITIES

Students have the right to clear, accurate, and current information about degree requirements, transfer admission requirements, transfer admission deadlines, and transfer policies that include course equivalencies.

Transfer and freshman-entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.

Students have the right to seek clarification regarding their transfer evaluations and may request the reconsideration of any aspects of those evaluations. In response, the college will follow established practices and processes for reviewing its transfer credit decisions.

Students have the responsibility to complete all materials required for admission and to submit applications on or before published deadlines.

Students have the responsibility to plan their courses of study by referring to the specific published degree requirements of the college or academic program at which they intend to earn a bachelor's degree.

When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.

# College-Level Education (Transfer)

## COLLEGE AND UNIVERSITY RIGHTS AND RESPONSIBILITIES

Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with their institutional missions.

Colleges and universities have the responsibility to communicate and publish their requirements and course offerings to students and the public, including information about student transfer rights and responsibilities.

Colleges and universities have the responsibility to communicate their admission and transfer related decisions to students in writing (electronic or paper).

## Program Learning Outcomes (PLO)

The following learning outcomes were developed through faculty conversations regarding what TCC wants students to be able to know and do after they complete our programs. Outcomes gained through programs that support TCC's transfer degrees will be used by students at the baccalaureate institutions to which they transfer.

### WRITTEN COMMUNICATION SKILLS

Upon successful completion of the communication distribution requirements for the Associate Degree, students will:

- Craft, develop, and support a specific, debatable thesis.
- Draft and refine a well-organized essay, speech, or other form of communication appropriate to context and audience.
- Read critically and research effectively to support thesis.
- Use appropriate writing and/or communication strategies, standard grammar, and academic documentation conventions.
- Demonstrate ethical standards in all phases of the writing and/or communication process to include using collaboration within academically appropriate guidelines.

### QUANTITATIVE SKILLS

Upon successful completion of the Quantitative Skills requirement for the Associate Degree, students will:

- Interpret, analyze, and create graphs and charts that communicate quantitative or relational information.
- Determine, create, and use appropriate and reasonable mathematical constructs to model, understand, and explain phenomena encountered in the world.
- Determine and carry out an appropriate algorithm to solve problems that are amenable to mathematical solutions.
- Communicate mathematical information formally, using appropriate math notation and terminology, and informally by using everyday language to express ideas.
- Use technology to analyze and solve mathematical problems and effectively communicate solutions to problems, particularly those that cannot be solved efficiently by other means.

# College-Level Education (Transfer)

## NATURAL SCIENCES

Upon successful completion of the Natural Sciences distribution requirements for the Associate Degree, students will:

- Evaluate information scientifically in the context of their own lives.
- Explain the importance of observation and hypothesis testing in the scientific process, and distinguish between the scientific process and other human endeavors.
- Communicate the primary principles and processes underlying at least one natural system (for example: atoms and molecules, cells and organisms, the oceans and atmosphere, the solid earth, or the cosmos).
- Perform and effectively communicate the results of scientific investigations, and explain how research is done in science.
- Demonstrate the safe and proper use of scientific instrumentation, measuring devices, chemical reagents, media, and/or tools of science in a laboratory or field setting relevant to specific disciplines of science.

## SOCIAL SCIENCES

Upon successful completion of the Social Sciences distribution requirements for the Associates Degree, students will:

- Demonstrate knowledge of some major empirical findings of the social sciences.
- Demonstrate an understanding of some of the concepts, theories, and methods used within the social sciences to understand human behavior/events.
- Objectively identify some social variables that have shaped one's own point of view.
- Engage with or accurately represent a point of view that is different from one's own.
- Apply concepts and tools from the social sciences to explain or analyze a social phenomenon, process, event, conflict, or issue.
- Evaluate the quality/credibility of information from various kinds of sources (academic, journalistic, popular media).
- Present social science information according to appropriate academic standards.

## HUMANITIES

Upon successful completion of the Humanities distribution requirements for the Associate Degree, students will:

- Know and recall important ideas and facts relating to Humanities program subject areas (Art, Creative Writing, World Languages, Humanities, Literature, Music, and Philosophy).
- Apply critical thinking skills to explore and interpret the diversity of the human experience.
- Create and communicate comprehension of content by utilizing various media.
- Demonstrate empathy and understanding based on recognition of historical and cultural contexts in more than one Humanities subject area.

## PHYSICAL EDUCATION

Upon successful completion of the Physical Education distribution requirements (three credits) for the Associate of Arts Degree, students will:

- Critically evaluate and communicate health and/or fitness information.
- Engage regularly in physical fitness and/or sports activities using skills developed in the physical education program.
- Practice and evaluate a personal wellness/fitness plan based upon a periodic evaluation of personal fitness status.
- Exhibit personal and social behavior that respects self and others in physical activities.



# Associate of Arts

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above, including the requirements listed below under the heading Associate of Arts (DTA) or the requirements of an approved Option B plan.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits will apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

## Associate of Arts (DTA) Degree

(DTA Transfer Degree)

This TCC degree is directly transferable to all public and most private Washington baccalaureate institutions (four-year colleges and universities). The Associate of Arts (DTA) is a general transfer degree appropriate for a wide variety of major areas of study. Students who complete this degree will normally have satisfied the General Education (distribution) requirements and be granted junior standing upon transferring to Washington baccalaureate institutions. While this degree does not guarantee admission, completion of the degree is a criterion for acceptance by many colleges and universities.

### Basic Requirements (15 credits)

#### COMMUNICATION SKILLS (10 CREDITS)

*Students who plan to transfer to any campus of the University of Washington are strongly advised to take English 102 or 103.*

» ENGL& 101 ..... English Composition I (5 credits)

» English Composition / Speaking Skills (5 credits)

Select 5 additional credits from the Communication section of the Approved Distribution Course List.

#### QUANTITATIVE / SYMBOLIC REASONING SKILLS (5 CREDITS)

Select 5 credits from the Quantitative/Symbolic Reasoning section of the Approved Distribution Course List. A symbolic logic course that focuses on (a) sentence logic with proofs and (b) predicate logic with quantifiers and proofs and/or Aristotelian logic with Venn Diagrams will also satisfy this requirement.

### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Select courses from the Humanities section of the Approved Distribution Course List.

» Courses must be selected from at least two disciplines.

» No more than 10 credits allowed from any one discipline.

» No more than 5 credits in world language at the 100 level.

» No more than 5 credits in performance/skill (P/S) courses may be used to satisfy this requirement.

# Associate of Arts

## SOCIAL SCIENCES (15 CREDITS)

Select courses from the Social Sciences section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.

## NATURAL SCIENCES (15 CREDITS)

Select courses from the Natural Sciences section or from the MATH courses listed under the Quantitative/Symbolic Reasoning section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.
- » Must include at least 10 credits from the courses listed as Biological, Earth, and Physical Sciences.
- » Must include at least one laboratory course.

## PHYSICAL EDUCATION (3 CREDITS)

- » Any three activity credits. No more than three PE activity credits apply toward the degree.
- » The following PE courses do not count as activity credits: PE 190, PE 191, PE 285, PE 292.

## DISTRIBUTION ELECTIVES (12 CREDITS)

Distribution electives must be selected from courses listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, Natural Sciences, or General Distribution Courses sections of the Approved Distribution Course List.

Students are advised to take at least one writing intensive course (other than a Communication Skills course) as part of their degree. Approved Writing Intensive courses are designated at the end of the Approved Distribution Course List and in the course description section.

## Other College-Level Electives (15 credits)

- » All elective credits must be selected from courses numbered 100 or above.
- » PE activity credits cannot be used as electives.

## NOTES:

- Certain baccalaureate institutions have additional university-specific requirements that are not required for admission but will need to be completed prior to graduation from the college or university. See page 30 of the ICRC Handbook at [www.wa-council.org/icrc](http://www.wa-council.org/icrc)
- Students who plan to transfer to The Evergreen State College or to the University of Washington–Tacoma are strongly advised to include at least one learning community (coordinated studies or linked course) as part of their degree.

## Associate of Arts Option B Degree

This TCC degree option is awarded in fields of study for which the transfer requirements of a four-year college or university differ significantly from TCC's Associate of Arts (DTA) requirements and no major related degree exists.

Option B degrees are designed to transfer only to specific programs within specific four-year colleges or universities. Students who are uncertain where they will transfer or which program/major they will pursue should consult with their advisors. Such students may be better served by pursuing Associate of Arts (DTA) degrees or other major-related transfer degrees.

Students who know to which programs and institutions they plan to transfer and are interested in Option B degrees, should consult with advisors at their intended transfer institutions regarding program requirements. They should also be assigned to a designated TCC Option B faculty advisor for their specific major-related areas, preferably by the end of their first TCC year.

Two quarters before TCC graduation, Option B students should complete the Option B application form, available from the Enrollment Services credentials evaluator, Bldg. 7. The Option B application must be signed by the student's Option B advisor and include copies of the requirements or recommendations published by the four-year institutions or written recommendations by an undergraduate departmental advisor of the four-year institutions. Student's Option B advisor can assist with these forms.

While Option B advisors provide assistance, students pursuing Option B degrees are responsible for securing adequate assurances from their four-year institutions that their Option B programs will be accepted by the transfer institution.

# Associate of Arts

## Associate of Arts (DTA) Degree: Liberal Arts Early Access Program - LaEAP

The Evergreen State College is a nationally recognized public liberal arts college. The Tacoma program offers full time Bachelor's and Master's liberal arts courses of study. Evergreen State College's mission is:

*"As an innovative public liberal arts college, Evergreen emphasizes collaborative, interdisciplinary learning across significant differences. Our academic community engages students in defining and thinking critically about their learning. Evergreen supports and benefits from local and global commitment to social justice, diversity, environmental stewardship and service in the public interest."*

The Evergreen State College Liberal Arts Early Access Program (LaEAP) is a partnership for TCC students completing an Associate of Arts (DTA) degree and interested in pursuing a bachelor's degrees in liberal arts.

Eligible students attend classes at Evergreen State College Tacoma while completing an Associate of Arts (DTA) degree from Tacoma Community College. Students will attend the Evergreen "Lyceum" with third and fourth year Evergreen students. Lyceum consists of a combination of interdisciplinary lectures and small group learning activities.

Evergreen LaEAP courses are completed at Evergreen Tacoma: 1210 6th Ave, Tacoma, WA 98405

### Program Prerequisites

- Student is currently completing a TCC Associate of Arts DTA degree
- Student has successfully completed 60+ college-level credits
- Student has successfully completed ENGL& 101, PSYCH 100, and SOC& 101

### How it Works

- TCC students register, pay tuition and continue as active status students at TCC.
- Students attend class at Evergreen State College Tacoma.
- Students may take one course at Evergreen State College Tacoma per quarter.
- Up to 10 college credits completed at Evergreen State College Tacoma can be applied towards a TCC degree.

### 2019-2020 Evergreen LaEAP Courses (completed at Evergreen State College - Tacoma)

- Fall Quarter: ENGL 103 – Writing about Literature
- Winter Quarter: CMST 110 – Multicultural Communication
- Spring Quarter: SOC 299 – Individual Study/Research

## Associate of Arts (DTA) Degree with ANTHROPOLOGY Specialization

The Anthropology Specialization of the Associate of Arts (DTA) degree provides a well-rounded foundation in the primary subfields of anthropology, including archaeology, and biological, cultural and linguistic anthropology. Students may complete the Anthropology Specialization Requirements as part of their Associate of Arts (DTA) degree.

This specialization prepares students to transfer as an anthropology major with junior standing at our primary transfer universities, including University of Washington-Seattle, Western Washington University, Central Washington University, and Pacific Lutheran University, among others.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### ANTHROPOLOGY SPECIALIZATION REQUIREMENTS

25 credits (90 credits total)

#### ANTHROPOLOGY CORE REQUIREMENTS (15 CREDITS)

- » Select three courses from the following:
  - ANTH& 204 .....Archaeology (5)
  - ANTH& 205 .....Biological Anthropology (5)
  - ANTH& 206 .....Cultural Anthropology (5)
  - ANTH& 207 .....Linguistic Anthropology (5)

#### ANTHROPOLOGY ELECTIVES (5 CREDITS)

- » Select one of the following Anthropology elective courses:
  - ANTH& 100 .....Survey of Anthropology (5)  
*(Not a prerequisite for the core courses but a strongly recommended holistic overview; transfers as an Anthropology elective at 4-year institutions)*
  - ANTH& 210.....Indians of North America (5)
  - ANTH& 237 .....Human Osteology (5)
  - ANTH& 245 .....Primateology (5)

#### QUANTITATIVE SKILL REQUIREMENT (5 CREDITS)

- » Select one course of the following:
  - MATH 136.....Inferential Statistics (5)
  - MATH& 146.....Introduction to Statistics (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Select one course of the following:

- » MATH 136.....Inferential Statistics (5)
- » MATH& 146.....Introduction to Statistics (5)

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. ANTH& 100, 206, 207 and 210 may be used to fulfill the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. ANTH& 207 may be applied toward this requirement. Additional recommendations include a world language, Philosophy, Non-Western Literature, World Music, or Art Appreciation.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. Up to 10 credits of ANTH courses in the Anthropology Specialization Requirements may be applied toward this requirement. Recommendations for remaining 5 credits include World History, Sociology and Psychology.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement. ANTH& 205, 237 or 245 may be applied to meet up to 5 credits of this requirement. Additional Natural Science recommendations include Human Biology, Geology or Environmental Science.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill the remaining Anthropology Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement.

## Associate of Arts (DTA) Degree with ART Specialization

The Art Specialization of the Associate of Arts (DTA) degree prepares transfer students with the foundation Art classes required at most four-year institutions and a strong art portfolio to apply for the Art Major at that institution.

Alternatively, an Associate of Arts degree from TCC with a Specialization in Art supports and enhances an application in an art-related field that does not require a BA and can lead to employment at a museum or commercial art gallery; working in a print-shop that produces signage for advertising; a screen-print company producing printed garments; a photography lab technician; an art studio technician; an assistant to an artist, among others.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### ART SPECIALIZATION REQUIREMENTS

37 credits (90 credits total)

#### FOUNDATION COURSES (20 CREDITS)

- » ART& 100 ..... Art Appreciation (Multicultural course) (5)
- » ART 102 ..... Two-Dimensional Design (5)
- » ART 103 ..... Three-Dimensional Design (5)
- » ART 105 ..... Beginning Drawing (5)

#### MEDIA COURSES (15 CREDITS)

Select three courses from the following; may be from the same discipline.

- » ART 106 ..... Advanced Drawing (5)
- » ART 161 ..... Life Studies: Figure Drawing (5)
- » ART 110 ..... Beginning Graphic Design (5)
- » ART 111 ..... Intermediate Graphic Design (5)
- » ART 131 ..... Beginning Ceramics (5)
- » ART 132 ..... Intermediate Ceramics I (5)
- » ART 146 ..... Beginning Photography (5)
- » ART 246 ..... Intermediate Photography (5)
- » ART 147 ..... Intro. to Digital Photography (5)
- » ART 247 ..... Intermediate Digital Photography (5)
- » ART 150 ..... Beginning Printmaking (5)
- » ART 151 ..... Advanced Printmaking (5)
- » ART 156 ..... Beginning Painting (5)
- » ART 157 ..... Intermediate Painting (5)
- » ART 172 ..... Beginning Sculpture (5)
- » ART 173 ..... Intermediate Sculpture I (5)

#### FOLIO PREPARATION (2 CREDITS)

- » ART 297 ..... Folio Preparation (2)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. ART& 100 fulfills the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. ART& 100 and one additional Foundation Course in the Art Specialization Requirements may be applied toward this requirement.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill the Foundation Courses requirement of the Art Specialization. Select a Distribution Course in the Media Courses requirement of the Art Specialization.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Art Specialization Requirements, including a Media Course and Folio Preparation.

## Associate of Arts (DTA) Degree with COMMUNICATION STUDIES Specialization

The Communication Studies specialization aims to give students skills that promote social justice, and make sense of a challenging, ever-changing civilization. TCC's program provides an introduction to the concepts, theories, terminology, and current topics in the versatile and popular field of Communications.

The Communication Studies (CMST) emphasis of the Associate of Arts (DTA) degree challenges students to craft a world that is shaped by communication that is rich with intercultural exchange. Students specializing in Communication Studies examine and produce work in oral, written, media, and visual communication and practice critical skills in groups and in their personal relationships. This includes examination and disruption of power structures, systemic issues, and barriers within various contexts and environments. Communication Studies students develop skills in listening, conflict resolution, and critical communication that inform purposeful and reflective responses during interaction with a diverse and complex society.

Communication Studies coursework at TCC prepares students to transfer to four-year communication programs and provides students with tangible skills for workforce and relational communication. Students planning to transfer to four-year institutions elsewhere should consult their advisor as well as the specific institution's transfer requirements for programs of interest. Students should review those requirements to confirm that they meet them before they transfer.

### COMMUNICATION STUDIES SPECIALIZATION REQUIREMENTS

20 credits (90 credits total)

- » CMST& 101 .....Introduction to Communication Studies (5)
- » Any 3 CMST& Foundation Courses (110, 210,220,230)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### **Basic Requirements (15 credits)**

##### **COMMUNICATION SKILLS (10 CREDITS)**

Fulfill the Associate of Arts (DTA) Communication Skills requirement

##### **QUANTITATIVE REASONING SKILLS (5 CREDITS)**

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### **Distribution Requirements (60 credits)**

Individual credits may be counted in only one distribution or basic requirements area.

##### **HUMANITIES (15 CREDITS)**

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement.

##### **SOCIAL SCIENCES (15 CREDITS)**

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. (SOC& 101 and POLS& 101 are recommended)

##### **NATURAL SCIENCES (15 CREDITS)**

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement. Recommended: Environmental Science&105 (5 credits), Science 105 (5 credits).

##### **PHYSICAL EDUCATION (3 CREDITS)**

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### **DISTRIBUTION ELECTIVES (12 CREDITS)**

Fulfill the Associate of Arts (DTA) Distribution Electives requirement.

#### **Other College-Level Electives (15 credits)**

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement.

## Associate of Arts (DTA) Degree with ELEMENTARY EDUCATION Specialization

The Elementary Education Specialization of the Associate of Arts (DTA) degree helps students identify the career path for elementary education and to best prepare for successful transfer into four-year schools. The Elementary Education Specialization prepares students for successful transfer at the junior level in Elementary Education at college and universities, especially at our primary transfer institutions: Central Washington University, Pacific Lutheran University, University of Puget Sound, Eastern Washington University, and Western Governors University.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### ELEMENTARY EDUCATION SPECIALIZATION REQUIREMENTS

30 credits (90 credits total)

#### EDUCATION FOUNDATION COURSES (20 CREDITS)

- » EDUC& 205 ..... Introduction to Education  
w/Field Experience (5)
- » EDUC 220 ..... Diversity in Education (5)
- » PSYC& 200 ..... Lifespan Psychology (5)

Select one course from the following:

- » ART 180 ..... Art for Elementary Education (5)
- » MUSC 120 ..... Music in the Classroom (5)
- » ENGL 262 ..... Children's Literature (5)

#### QUANTITATIVE SKILLS REQUIREMENT (10 CREDITS)

- » MATH& 131 ..... Math for Elementary Education I (5)
- » MATH& 132 ..... Math for Elementary Education II (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

- » MATH& 131 ..... Math for Elementary Education I (5)

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. EDUC 220, PSYC& 200, or ENGL 262 fulfill the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. ART 180, ENGL 262, and MUSC 120 may all be applied toward this requirement. One is required for the Elementary Education Specialization. All are recommended.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. The following courses are all required for the Elementary Education Specialization and may be used to fulfill the Social Sciences Distribution requirement:

- » EDUC& 205 ..... Introduction to Education  
w/Field Experience (5)
- » EDUC 220 ..... Diversity in Education (5)
- » PSYC& 200 ..... Lifespan Psychology (5)

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement. MATH& 132 may be applied toward this requirement.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. PSYC& 100 and CMST& 220 are recommended.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement.

## Associate of Arts (DTA) Degree with ENVIRONMENTAL SUSTAINABILITY Specialization

The following course set fulfills the requirement of the Specialization in Environmental Sustainability for the Associate of Arts Degree and prepares students to pursue advanced study in sustainability at a four-year institution and for transfer as an Environmental Sustainability major at University of Washington-Tacoma (UWT).

Environmental Sustainability is a field of study for nonscientists with an interest in environmental issues and their effects on human social and economic systems. Sustainability is a highly interdisciplinary area of study, including the natural sciences and social sciences. This program is designed specifically for students to transfer to UWT. Students who intend to transfer somewhere other than UWT should consult with an environmental sustainability advisor. Upon transferring to UWT, students will choose one of four options for in-depth study: Environmental Policy and Law, Environmental Communication, Business/Nonprofit Environmental Sustainability or Environmental Education. Environmental Sustainability majors must also have strong communication, writing, and computer literacy skills. Students may need to take additional prerequisite courses.

Students should meet with an environmental sustainability advisor as soon as they begin at TCC. Many courses have prerequisites or are offered only once or twice a year. Careful selection of classes is necessary to complete the program without delay. All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement. Recommended:

- » ENGL& 101 ..... English Composition I (5)
- » ENGL& 102 ..... English Composition II (5)
- or ENGL& 235 ..... Technical Writing (5)

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

- » MATH& 146 ..... Introduction to Statistics (5)

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area.

##### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Recommendations include World Language, Philosophy, Literature, Humanities, Music or Art.

##### SOCIAL SCIENCES (15 CREDITS)

- » POLS 240 ..... Environmental Politics and Sustainability (5)
- » PSYC& 100 ..... General Psychology (5)
- » ECON& 201 ..... Microeconomics (5)

##### NATURAL SCIENCES (15 CREDITS)

- » BIOL& 100 ..... Survey of Biology; Ecology (5)
- or BIOL& 221 ..... Intro to Evolution, Ecology & Biodiversity (5)
- » CHEM& 110 ..... Chemical Concepts w/ Lab; Sustainability (5)
- » GEOG 205 ..... Physical Geography (5)

##### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Recommended Course:

- » ENVS& 101 ..... Intro to Environmental Science (5)
- » BOT 101 ..... General Botany (5)

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Environmental Sustainability Specialization Requirements, if necessary



## Associate of Arts (DTA) Degree with HISTORY Specialization

The History Specialization of the Associate of Arts (DTA) degree prepares students for successful transfer at the junior level in History at our primary transfer universities, including University of Washington-Tacoma, University of Washington-Seattle, Western Washington University, Central Washington University, Pacific Lutheran University, and the University of Puget Sound, among others.

This specialization provides an introduction to the key political, social, cultural, and economic events in American society from the past to the present and a historical study of human societies in the world, with emphasis on their interactions with each other, and the continuous transitions of their traditions from past to the present. Discussions focus on the individuals, issues, ideas, and events most responsible for shaping America and our world throughout history.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### HISTORY SPECIALIZATION REQUIREMENTS

30 credits (90 credits total)

#### WORLD CIVILIZATION CORE (15 CREDITS)

- » HIST& 126 .....World Civilization I (5)
- » HIST& 127 .....World Civilization II (5)
- » HIST& 128 .....World Civilization III (5)

#### US HISTORY CORE (15 CREDITS)

- » HIST& 146 ..... US History I (5)
- » HIST& 147 ..... US History II (5)
- » HIST& 148 ..... US History III (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. Each of HIST& 126, 127, 128, 219, 220, as well as HIST 210, 211, 230, 231, and 240 fulfills the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Recommendations include:

- » HIST& 219 .....Native American History (5)
- » HIST 231 .....American History, American Film (5)
- » Other recommendations include Philosophy, Non-Western Literature, World Music, or Art Appreciation.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. Up to 10 credits of courses in the History Specialization Requirements may be applied toward this requirement.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill History Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining History Specialization Requirements.

## Associate of Arts (DTA) Degree with INTERDISCIPLINARY WRITING Specialization

TCC's Interdisciplinary Writing Studies Specialization aims to help students build and strengthen their unique voices, harness the energy of language, and make intentional writing choices that empower them to express themselves and promote change. This specialization offers students real-world writing experience and academic preparation for transfer to a wide variety of four-year college or university programs. This degree is also a great choice for students who know they want to transfer but haven't yet decided on an area of interest.

This specialization prepares students to transfer to a four-year college as a junior and pursue a diverse range of degrees and careers, including meaningful and fulfilling work in media, education, business, government, publishing, non-profit, law, public relations, communications, and arts sectors. It is especially beneficial to students planning to transfer to the University of Washington Tacoma, due to UWT's emphasis on interdisciplinary studies.

Courses are designed to help students develop the capacity to critically examine power and privilege within print and digital texts; produce effective, audience-centered texts; and develop an inclusive, respectful, and multicultural worldview through engagement with faculty, peers, and locally and nationally recognized writers.

Students pursuing the specialization have opportunities to write for and edit TCC publications, including *Una Voce*, the magazine of student writing; *Trillium*, the magazine of creative writing and art; and *The Challenge* online student newspaper. Students may apply for positions as writing tutors/support staff in the Writing and Tutoring Center or through the Supplemental Instruction program.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure students meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### INTERDISCIPLINARY WRITING SPECIALIZATION REQUIREMENTS

35 credits (90 credits total)

- » ENGL& 101 .....English Composition I (5 credits)
- » ENGL& 102.....English Composition II (5)  
or ENGL& 103 ....English Composition III (5)
- » ENGL& 235 ..... Technical Writing (5)  
or other writing of literature course (5)
- » SOC& 101 .....Introduction to Sociology (5)
- » PSYC& 100 .....General Psychology (5)

- » POLS& 101 .....Introduction to Political Science (5)  
or POLS& 202.....American Government (5)
- » CMST& 101 .....Introduction to Communication Studies (5)  
or CMST& 110 ....Multicultural Communication (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area.

##### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement.

##### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. (SOC& 101 and POLS& 101 are recommended)

##### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement. Recommended: Environmental Science&105 (5 credits), Science 105 (5 credits).

##### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Interdisciplinary Writing Studies Specialization Requirements. Recommended: Library Science 101 and/or 102 (s credits each), WRITE 140/141/142 Writing Tutor Practicum (2 credits each), ENGL 180 *Una Voce* production workshop (2 credits), ENGL 178 *Trillium* production workshop (2 credits).

## Associate of Arts (DTA) Degree with LITERATURE Specialization

The Literature Specialization of the Associate of Arts (DTA) degree provides a solid introduction to the concepts, terminology, interpretation and analysis of literature. This specialization prepares students for successful transfer at the junior level in English, American Studies, or Literature at Washington state four-year universities.

TCC's Literature Specialization includes a rich variety of exciting courses ranging from ancient to postmodern literature and from the traditional to the experimental or avant-garde. Students work closely with accomplished faculty who are published poets, novelists, and nonfiction writers, and collaborate on our student publications *Trillium* and *Una Voce*.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### LITERATURE SPECIALIZATION REQUIREMENTS

25 credits (90 credits total)

#### LITERATURE CORE (20 CREDITS)

Select four courses from the following. Note: These courses are NOT sequential; nor is one a prerequisite to another.

American Literature Survey Courses

- » ENGL& 244 ..... American Literature I (5)
- » ENGL& 245 ..... American Literature II (5)
- » ENGL& 246 ..... American Literature III (5)

British Literature Survey Courses

- » ENGL& 226 ..... British Literature I (5)
- » ENGL& 227 ..... British Literature II (5)

#### SPECIAL FOCUS LITERATURE COURSE (5 CREDITS)

Select at least one course from the following:

- » ENGL& 220 ..... Introduction to Shakespeare (5)
- » ENGL 234 ..... Introduction to Mythology & Folk Stories (5)
- » ENGL 261 ..... The Bible as Literature (5)
- » ENGL 262 ..... Children's Literature (5)
- » ENGL 271 ..... Contemporary American Fiction (5)
- » ENGL 280 ..... Literatures of Diversity (5)
- » HUM 130 ..... Introduction to Film (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement. Recommended:

- » ENGL 103 ..... Composition III: Writing about Literature (5)

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. ENGL& 227, ENGL 234, ENGL& 244, ENGL& 245, ENGL& 246, ENGL 261, ENGL 262, ENGL 271 and ENGL 280 fulfill the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Up to 10 credits of ENGL courses in the Literature Specialization Requirements may be applied toward this requirement. HUM 130 may also be applied toward this requirement.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill Literature Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Literature Specialization Requirements, if necessary.

## Associate of Arts (DTA) Degree with MATHEMATICS Specialization

The Mathematics Specialization of the Associate of Arts (DTA) degree prepares students intending to major in mathematics to transfer to a 4-year school with junior level standing.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### MATHEMATICS SPECIALIZATION REQUIREMENTS

35 credits (90 credits total)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5)
- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » MATH& 254 ..... Calculus IV (5)
- » CS 142 ..... Java Programming for Engineers and Scientists I (5)  
or ENGR 240 ..... Applied Numerical Methods (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement.

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area.

##### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement.

##### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement.

##### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

##### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill Mathematics Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement.

## Associate of Arts (DTA) Degree with MUSIC Specialization

The Music Specialization of the Associate of Arts (DTA) degree provides a clear, music-focused pathway for students to chain music courses together in a meaningful and transfer-relevant way. This specialization prepares students to transfer as Bachelor of Arts in Music majors, or Bachelor of Arts majors. It also prepares students with a solid framework of music knowledge, allowing them to potentially enter the music industry workforce.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

Students seeking a music degree should also consider the Associate of Music degree on catalog page 70.

### MUSIC SPECIALIZATION REQUIREMENTS

31 credits (90 credits total)

#### MUSIC THEORY (10 CREDITS)

- » MUSC& 141 ..... Music Theory I (5)
- » MUSC& 142 ..... Music Theory II (5)

#### MUSIC ENSEMBLE (6 CREDITS)

Ensemble classes can be repeated up to 3 times. Select from the following:

- » MUSC 152 ..... Chamber Choir I (2)
- » MUSC 252 ..... Chamber Choir II (2)
- » MUSC 160 ..... Orchestra I (2)
- » MUSC 260 ..... Orchestra II (2)
- » MUSC 161 ..... Symphonic Band I (2)
- » MUSC 261 ..... Symphonic Band II (2)
- » MUSC 165 ..... Jazz Band I (2)
- » MUSC 265 ..... Jazz Band II (2)

#### MUSIC ELECTIVES (15 CREDITS)

15 credits selected from:

- » MUSC& 143 ..... Music Theory III (5)
- » MUSC& 241 ..... Music Theory IV (5)
- » MUSC& 242 ..... Music Theory V (5)
- » MUSC& 243 ..... Music Theory VI (5)
- » MUSC& 105 ..... Music Appreciation (5)
- » MUSC 106 ..... World Music (5)
- » MUSC 110 ..... Introduction to Digital Music (5)
- » MUSC 120 ..... Music in the Classroom (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement.

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. MUSC 106 fulfills the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Up to 10 credits of MUSC courses in the Music Specialization Requirements may be applied toward this requirement.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill Music Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Music Specialization Requirements, if necessary.

## Associate of Arts (DTA) Degree with POLITICAL SCIENCE Specialization

The following course set fulfills the requirement of the Specialization in Political Science for the Associate of Arts Degree and prepares students to pursue advanced study in political science at a four-year institution and for transfer as a political science major with junior standing at University of Washington-Tacoma, University of Washington.

In addition to the critical achievement of becoming a well-informed citizen in a democratic system of governance, students who major in Political Science gain a depth of knowledge, skills and experience that can be applied to a wide range of careers. Political science majors may become campaign staffers, government employees, non-profit employees, business professionals, grant writers and journalists. With additional education, political science majors can become lawyers, paralegals, educators, and researchers.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### POLITICAL SCIENCE SPECIALIZATION REQUIREMENTS

20 credits (90 credits total)

#### POLITICAL SCIENCE FOUNDATION (15 CREDITS)

Select three courses from the following:

- » POLS& 101 ..... Introduction to Political Science (5)
- » POLS& 201 ..... Introduction to Political Theory (5)
- » POLS& 202 ..... American Government and Politics (5)
- » POLS& 203 ..... International Relations (5)

#### POLITICAL SCIENCE ELECTIVES (5 CREDITS)

Select one course from the following:

- » POLS 231 ..... Politics and Film (topics vary) (5)
- » POLS 240 ..... Environmental Politics and Sustainability (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement.

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area.

##### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Recommendations include World Language, Philosophy, Literature, Humanities, Music or Art.

##### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. Up to 10 credits of POLS courses in the Political Science Specialization Requirements may be applied toward this requirement.

##### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

##### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill Political Science Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Political Science Specialization Requirements, if necessary.

## Associate of Arts (DTA) Degree with PSYCHOLOGY Specialization

The Psychology Specialization of the Associate of Arts (DTA) degree provides a solid introduction to the concepts, terminology, and current advances in the field of Psychology.

This specialization prepares students for successful transfer at the junior level in psychology at our primary transfer universities (University of Washington-Tacoma, University of Washington-Seattle, and Pacific Lutheran University). Students transferring elsewhere should consult their university's website and see their advisor.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### PSYCHOLOGY SPECIALIZATION REQUIREMENTS

30 credits (90 credits total)

#### CORE REQUIREMENTS (15 CREDITS)

- » PSYC& 100 ..... General Psychology (5)
- » PSYC& 202 ..... Biopsychology (5)
- » PSYC 209..... Fundamentals of Psychological Research (5)

#### FOUNDATION COURSES (10 CREDITS)

Select two of the following courses:

- » PSYC& 180 ..... Human Sexuality (5)
- » PSYC& 200 ..... Lifespan (5)
- » PSYC 205 ..... Personality (5)
- » PSYC& 220 ..... Abnormal (5)
- » PSYC 240 ..... Social Psychology (5)

#### QUANTITATIVE SKILLS REQUIREMENT (5 CREDITS)

Select one course from the following:

- » MATH 136..... Inferential Statistics (5)
- » MATH& 146..... Introduction to Statistics (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement.

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Select one course from the following:

- » MATH 136..... Inferential Statistics (5)
- » MATH& 146..... Introduction to Statistics (5)

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. PSYC& 200 Lifespan may be used to fulfill the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Recommendations include a World Language, Philosophy, English Literature, Humanities, Music or Art.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. Up to 10 credits of PSYC courses in the Specialization Requirements may be applied toward this requirement.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement. Recommendations include:

- » BIOL& 175..... Human Biology (5)
- » ANTH& 205 ..... Biological Anthropology (5)

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill Psychology Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Psychology Specialization Requirements, if necessary.

## Associate of Arts (DTA) Degree with SOCIOLOGY Specialization

The Sociology Specialization of the Associate of Arts (DTA) degree provides a solid introduction to the concepts, terminology, and current advances in the fascinating field of Sociology.

This specialization prepares students for successful transfer at the junior level in sociology at our primary transfer universities (University of Washington-Tacoma, University of Washington-Seattle, and Pacific Lutheran University). Students transferring elsewhere should consult their university's website and see their advisor.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

### SOCIOLOGY SPECIALIZATION REQUIREMENTS

25 credits (90 credits total)

#### SOCIOLOGY CORE (20 CREDITS)

» SOC& 101 ..... Introduction to Sociology (5)

Select any three SOC Foundation Courses:

» SOC 120 ..... Introduction to Women's Studies (5)

» SOC 200 ..... Introduction to Research Methods  
for Sociologists (5)

» SOC& 201 ..... Social Problems (5)

» SOC 205 ..... Sociology of African Americans (5)

» SOC 222 ..... Sociology of Sport (5)

» SOC 238 ..... Sociology of Latinx Americans (5)

» SOC 255 ..... Sociology of Military and Society (5)

» SOC 262 ..... Race and Ethnic Relations (5)

» SOC 265 ..... Sociology of Asian Americans (5)

» SOC 271 ..... Introduction to the Sociology of Deviance  
and Social Control (5)

» SOC 287 ..... Sociology of Gender and Sexuality (5)

#### QUANTITATIVE SKILLS REQUIREMENT (5 CREDITS)

Select one course from the following:

» MATH 136..... Inferential Statistics (5)

» MATH& 146..... Introduction to Statistics (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement.

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement. Select one of the following:

» MATH 136..... Inferential Statistics (5)

» MATH& 146..... Introduction to Statistics (5)

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. The Multicultural degree requirement is fulfilled by many courses in the Sociology Core list.

##### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Recommendations include a world language, Philosophy, English Literature, Humanities, Music or Art.

##### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement. Up to 10 credits of SOC courses in the Sociology Specialization Requirements may be applied toward this requirement.

##### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement. Recommended:

» ANTH& 205 ..... Biological Anthropology (5)

##### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill the remaining Sociology Specialization Requirements.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement.



## Associate of Arts (DTA) Degree with SPANISH Specialization

The Spanish Specialization of the Associate of Arts (DTA) degree enables students to develop listening, speaking, reading and writing skills in Spanish, and to analyze, examine and explore oral and written communication using a variety of topics through authentic materials, in all major time frames.

The Specialization in Spanish prepares students for successful transfer at the junior level in Spanish or related field at Washington State 4-year universities. This specialization is appropriate for students who are interested in developing multilingual communication skills and in applying these in any career field or professional setting.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and elective requirements of the Associate of Arts degree.

### SPANISH SPECIALIZATION REQUIREMENTS

5-30 credits (90 credits total)

- » Completion of SPAN& 223 is required.
- » Students need to complete the courses in the sequence leading up to and including SPAN& 223 in accordance with their previous language experience.
- » Students without previous language experience need to start the sequence at the SPAN& 121 level.
- » Students with significant background from secondary education, study abroad, heritage speakers, etc. need to consult with the appropriate advisor from the World Language Department in order to be evaluated and placed in the appropriate level.

The Spanish Language and Culture Foundation Course Sequence includes:

- » SPAN& 121 ..... Spanish I (5)
- » SPAN& 122 ..... Spanish II (5)
- » SPAN& 123 ..... Spanish III (5)
- » SPAN& 221 ..... Intermediate Spanish I (5)
- » SPAN& 222 ..... Intermediate Spanish II (5)
- » SPAN& 223 ..... Intermediate Spanish III (5)

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement. Recommended:

- » ENGL 103 ..... Composition III: Writing about Literature (5)

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. Any world language course fulfills the Multicultural degree requirement.

##### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Up to 10 credits of SPAN courses may be applied toward this requirement, but only 5 of those credits may be from SPAN& 121, 122 or 123.

##### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement.

##### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

##### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

##### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill Spanish Specialization Requirements, if necessary.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining Spanish Specialization Requirements, if necessary.

## Associate of Arts (DTA) Degree with WORLD LANGUAGES Specialization

The World Languages Specialization of the Associate of Arts (DTA) degree enables students to develop listening, speaking, reading and writing skills in multiple languages, and to analyze, examine and explore oral and written communication using a variety of topics through authentic materials, in all major time frames.

The Specialization in World Languages prepares students for successful transfer at the junior level in a world language or related field at Washington State 4-year universities. This specialization is appropriate for students with preexisting language skills who are interested in developing communication skills in at least two languages (in addition to English) and in applying these in any career field or professional setting.

All public universities in the state of Washington have a language requirement at the bachelor degree level. Students should review those requirements and ensure they meet them prior to transfer. World language credit can be applied toward humanities, multicultural, and general elective requirements of the Associate of Arts degree.

*\* SPAN& 221 has a prerequisite of the first-year language sequence in Spanish (SPAN& 121, 122, 123). This prerequisite must be met, or a milestone must be granted for students who place into SPAN& 221 based on preexisting skills.*

### WORLD LANGUAGES SPECIALIZATION REQUIREMENTS

10-30 credits (90 credits total)

#### PRIMARY LANGUAGE AND CULTURE FOUNDATION SEQUENCE (5-15 CREDITS)

- » Completion of the sixth quarter course in a modern language (other than English) is required. Students need to complete the courses in the sequence leading up to and including the sixth quarter course in accordance with their previous language experience. Students with significant background from secondary education, study abroad, heritage speakers, etc. need to consult with the appropriate advisor from the World Language Department to be evaluated and placed in the appropriate level.
- » The CLEP is accepted for placement and credit in Spanish and German.

TCC World Language offering at the second year includes:

- » SPAN& 221.....Intermediate Spanish I (5)
- » SPAN& 222.....Intermediate Spanish II (5)
- » SPAN& 223.....Intermediate Spanish III (5)

TCC often works with other local colleges to find opportunities for 200 level language studies in additional languages.

#### SECONDARY LANGUAGE FOUNDATION SEQUENCE (5-15 CREDITS)

- » Completion of the third quarter course in a modern language (other than English or the primary language selected above) is required. Students need to complete the courses in the sequence leading up to and including the third quarter course in accordance with their previous language experience. Students with significant background from secondary education, study abroad, heritage speakers, etc. need to consult with the appropriate advisor from the World Language Department to be evaluated and placed in the appropriate level.
- » The CLEP is accepted for placement and credit in Spanish and German.

## Associate of Arts (DTA) Degree with WORLD LANGUAGES Specialization

TCC World Language offering at the first year currently includes:

- » CHIN& 121 Chinese I, CHIN& 122 Chinese II, CHIN& 123 Chinese III
- » GERM& 121 German I, GERM& 122 German II, GERM& 123 German III
- » JAPN& 121 Japanese I, JAPN& 122 Japanese II, JAPN& 123 Japanese III
- » SPAN& 121 Spanish I, SPAN& 122 Spanish II, SPAN& 123 Spanish III

### GENERAL DEGREE REQUIREMENTS

(90 credits total, including Specialization Requirements)

#### Basic Requirements (15 credits)

##### COMMUNICATION SKILLS (10 CREDITS)

Fulfill the Associate of Arts (DTA) Communication Skills requirement. Recommended:

- » ENGL 103 ..... Composition III: Writing about Literature (5)

##### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Fulfill the Associate of Arts (DTA) Quantitative/Symbolic Reasoning Skills requirement.

#### Distribution Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. Any World Language course fulfills the Multicultural degree requirement.

#### HUMANITIES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Humanities Distribution requirement. Up to 15 credits of World Languages may be applied toward this requirement, but they must be from two different languages and only 5 credits may be in 100 level World Languages courses.

#### SOCIAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Social Sciences Distribution requirement.

#### NATURAL SCIENCES (15 CREDITS)

Fulfill the Associate of Arts (DTA) Natural Sciences Distribution requirement.

#### PHYSICAL EDUCATION (3 CREDITS)

Fulfill the Associate of Arts (DTA) Physical Education Distribution requirement.

#### DISTRIBUTION ELECTIVES (12 CREDITS)

Fulfill the Associate of Arts (DTA) Distribution Electives requirement. Select courses needed to fulfill World Languages Specialization Requirements, if necessary.

#### Other College-Level Electives (15 credits)

Fulfill the Associate of Arts (DTA) Other College-Level Electives requirement. Select courses needed to fulfill the remaining World Languages Specialization Requirements, if necessary.

# Associate of Arts in Biology

(DTA/MRP Transfer Degree)

This TCC degree is designed for students who intend to transfer to a baccalaureate institution to major in biology, wildlife science, botany, zoology, or similar programs in the natural sciences.

The Associate of Arts in Biology degree satisfies the General Education requirements of most Washington baccalaureate institutions (four-year colleges and universities). Students who transfer with the Associate of Arts in Biology degree may be required to complete some additional requirements during their junior and senior years as required by individual institutions.

Admission to some natural science programs is competitive. Completion of the Associate of Arts in Biology degree does not guarantee admission into a science program.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses. Students should work with a TCC advisor to plan their program of study.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits will apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

## Basic Requirements (15 credits)

### COMMUNICATION SKILLS (10 CREDITS)

- » ENGL& 101 ..... English Composition I (5 credits)

Select from the following approved courses:

- » ENGL& 102 ..... Composition II: Argument & Persuasion (5)
- » ENGL 103 ..... Composition III: Writing about Literature (5)
- » ENGL& 235 ..... Technical Writing (5)

### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Select one of the following (5 credits)

- » MATH& 151 ..... Calculus I (5) or above
- » MATH& 146 ..... Introduction to Statistics (5)  
when appropriate for the intended transfer program and institution and after consultation with a Biology advisor.

### Distribution and Major Requirements (60 credits)

Individual credits may be counted in only one distribution or basic requirements area. Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

### HUMANITIES (15 CREDITS)

Select courses from the Humanities section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.
- » No more than 5 credits in world language at the 100 level.
- » No more than 5 credits in performance/skill (P/S) courses may be used to satisfy this requirement.

### SOCIAL SCIENCES (15 CREDITS)

Select courses from the Social Sciences section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.

### NATURAL SCIENCES (30 CREDITS)

#### BIOLOGY (15 CREDITS)

- » BIOL& 221 ..... Intro. to Evolution, Ecology & Biodiversity (5)  
(Requires prerequisite class: BIOL&160)
- » BIOL& 222 ..... Intro. to Cellular & Molecular Biology (5)
- » BIOL& 223 ..... Intro. to the Biology of Organisms (5)

#### GENERAL CHEMISTRY (15 CREDITS)

- » CHEM& 161 ..... General Chemistry w/Lab I (5)  
(Requires prerequisite class: CHEM& 140)
- » CHEM& 162 ..... General Chemistry w/Lab II (5)
- » CHEM& 163 ..... General Chemistry w/Lab III (5)

### Other College-Level Electives (15 credits)

- » Additional elective courses required to reach a minimum of 90 total credits should be selected in consultation with an advisor, as appropriate for the intended transfer institution.
- » No more than three Physical Education Activity credits may apply to this degree.

**NOTE:** Certain baccalaureate institutions have additional university-specific requirements that are not required for admission but will need to be completed prior to graduation from the college or university. See page 30 of the ICRC Handbook at [www.wa-council.org/icrc/](http://www.wa-council.org/icrc/).

# Associate of Arts in Business

(DTA/MRP Transfer Degree)

This TCC degree is designed for students who intend to transfer to business schools at baccalaureate institutions.

The Associate of Arts in Business degree satisfies the General Education requirements of most Washington baccalaureate institutions (four-year colleges and universities). Students who complete the Associate of Arts in Business degree are normally granted junior standing upon admission to Washington baccalaureate institutions. Admission to schools of business is highly competitive. Completion of the Associate of Arts in Business degree does not guarantee admission.

In addition to the required courses for the Associate of Arts in Business degree, some baccalaureate institutions have unique graduation requirements. Many institutions require foreign language for admission, which can be used to satisfy humanities requirements and/or electives in TCC's Associate of Arts in Business degree. Students pursuing this degree are encouraged to work closely with TCC advisors familiar with business transfer requirements.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the Associate of Arts in Business degree and prerequisite courses for transfer to four-year university business degree programs, students will be able to:

- Discriminate between different business forms and take into consideration the ethical and other constraints of differing business structures in selecting the appropriate form to conduct a business enterprise.
- Employ a group process to explain the relationship of supply and demand in assessing the impact these factors have on the price of goods and services.
- Using a wide variety of electronic tools, explain the differences between and the information communicated on the balance sheet, income statement, and statement of owners' equity when making business decisions.
- Interpret, analyze, and quantify business information.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits will apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATION SKILLS (10 CREDITS)

» ENGL& 101 ..... English Composition I (5)

Select 5 credits from the following approved courses:

» ENGL& 102 ..... Composition II: Argument & Persuasion (5)

» ENGL 103 ..... Composition III: Writing about Literature (5)

#### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Select from the following approved courses:

» MATH& 148 ..... Business Calculus (5) (preferred)

» MATH& 151 ..... Calculus I (5)

OR a higher level MATH course that includes MATH& 151 as a prerequisite

# Associate of Arts in Business

## Distribution and Major Requirements (70 credits)

Individual credits may be counted in only one distribution or basic requirements area. Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

### HUMANITIES (15 CREDITS)

Select courses from the Humanities section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.
- » No more than 5 credits in world language at the 100 level.
- » No more than 5 credits in performance/skill (P/S) courses may be used to satisfy this requirement.
- » Students are encouraged to include a speech or oral communication course (not small group communication).

### SOCIAL SCIENCES (15 CREDITS)

- » ECON& 201 ..... Micro Economics (5)
- » ECON& 202 ..... Macro Economics (5)
- » Select 5 additional credits from courses other than Economics in the Social Sciences section of the Approved Distribution Course List

### NATURAL SCIENCES (15 CREDITS)

- » Select 5 credits from the MATH courses in the Quantitative/Symbolic Reasoning section of the Approved Distribution Course List.
- » Select 10 credits from the courses listed as Biological, Earth, and Physical Sciences on the Approved Distribution Course List.
- » Must include at least one laboratory course.

### MAJOR REQUIREMENTS (25 CREDITS)

- » ACCT& 201 ..... Principles of Accounting I (5)
- » ACCT& 202 ..... Principles of Accounting II (5)
- » ACCT& 203 ..... Principles of Accounting III (5)
- » BUS& 201 ..... Business Law (5)

Select 5 credits from the following Statistics courses:

- » BUS 256 ..... Statistical Analysis (5) (preferred)
- » MATH& 146 ..... Introduction to Statistics (5)

## Other College-Level Electives (5 credits)

- » Additional elective courses required to reach a minimum of 90 total credits should be selected in consultation with an advisor, as appropriate for the intended transfer institution.
- » No more than three Physical Education Activity credits may apply to this degree.

### NOTE:

Certain baccalaureate institutions have additional university-specific requirements that are not required for admission but will need to be completed prior to graduation from the college or university. See page 30 of the ICRC Handbook at [www.wa-council.org/icrc/](http://www.wa-council.org/icrc/).

# Associate of Arts in Computer Science

(DTA/MRP Transfer Degree)

This TCC degree is designed for students who intend to transfer to a baccalaureate institution to major in Computer Science or some other closely related field.

Many classes required for this degree are offered only once or twice a year. Students should work closely with a TCC advisor to plan their programs of study.

The Associate of Arts in Computer Science degree satisfies the General Education requirements of most Washington baccalaureate institutions (four-year colleges and universities). Students who transfer with the Associate of Arts in Computer Science degree may be required to complete some additional requirements during their junior and senior years as required by individual institutions. Students should review the requirements at their intended transfer institution to minimize the number of such additional requirements.

Admission to computer science programs is competitive. Completion of the Associate of Arts in Computer Science degree does not guarantee admission into a computer science program. This pathway intends to provide students with the information needed to optimize their coursework to earn a DTA degree and to prepare for computer science and related majors at Washington baccalaureate institutions.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits will apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

## Basic Requirements (15 credits)

### COMMUNICATION SKILLS (10 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

Select from the following approved courses:

- » ENGL& 102 ..... Composition II: Argument & Persuasion (5)
- » ENGL& 235 ..... Technical Writing (5)

### QUANTITATIVE / REASONING SKILLS (5 CREDITS)

- » MATH& 151 ..... Calculus I (5) or above

# Associate of Arts in Computer Science

## Distribution and Major Requirements (56-57 credits)

Individual credits may be counted in only one distribution or basic requirements area. Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

### HUMANITIES (15 CREDITS)

Select courses from the Humanities section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.
- » No more than 5 credits in world language at the 100 level.
- » No more than 5 credits in performance/skill (P/S) courses may be used to satisfy this requirement.

### SOCIAL SCIENCES (15 CREDITS)

Select courses from the Social Sciences section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.

### NATURAL SCIENCES (16-17 CREDITS)

- » MATH& 152..... Calculus II (5)
- » PHYS& 221..... Engineering Physics - Mechanics (6)
- » PHYS& 222..... Engineering Physics - Electricity and Magnetism (6)

OR if attending UW-T: any laboratory science course listed under Biological, Earth, and Physical Sciences on the Approved Distribution Course List, may be used in lieu of PHYS& 222.

### MAJOR REQUIREMENTS (10 CREDITS)

- » CS 142 .....Java Programming for Engineers and Scientists I (5)
- » CS 143 .....Java Programming for Engineers and Scientists II (5)

## University Specific Requirements (10-12 Credits)

Select a minimum of two courses from this list, as appropriate for the intended transfer institution. Non UW-T bound students MUST choose at least one Math course from the list below. If the transfer institution requires more than two courses, the additional courses can be applied as Electives credits.

- » MATH& 153..... Calculus III (5)
- » MATH& 254..... Calculus IV (5)
- » MATH& 146..... Introduction to Statistics (5)
- » MATH 220 ..... Linear Algebra (5)
- » PHYS& 223..... Engineering Physics - Waves, Optics, and Thermodynamics (6)
- » MATH 210..... Discrete Mathematics (5)
- » Any laboratory science course listed under Biological, Earth, and Physical Sciences on the Approved Distribution Course List. (5-6 Credits)

## Other College-Level Electives (6-9 credits)

- » Additional elective courses required to reach a minimum of 90 total credits should be selected in consultation with an advisor, as appropriate for the intended transfer institution.
- » No more than three Physical Education Activity credits may apply to this degree.

### NOTE:

Certain baccalaureate institutions have additional university-specific requirements that are not required for admission but will need to be completed prior to graduation from the college or university. See page 30 of the ICRC Handbook at [www.wa-council.org/icrc/](http://www.wa-council.org/icrc/).



# Associate of Music

(DTA/MRP Transfer Degree)

This TCC degree is designed for students who intend to transfer into music programs at baccalaureate institutions. Students who complete the Associate of Arts in Music degree are possibly granted junior standing upon admission to baccalaureate institutions. The Associate of Music degree satisfies the General Education requirements of most Washington baccalaureate institutions (four-year colleges and universities).

Admission to departments of music is highly competitive. Completion of the Associate of Music degree does not guarantee admission. In addition to the required courses for the Associate of Music degree, some baccalaureate institutions have unique entrance requirements. Students pursuing this degree are encouraged to work closely with TCC advisors familiar with music transfer requirements.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, minimum grade requirements in specific courses, performance, and audition requirements.

## CAREER OPPORTUNITIES

The rigor and design of this degree and its curriculum are helpful for any TCC students seeking to transfer and earn a 4-year music degree. Bachelor of Arts in Music, Bachelor of Music, and Bachelor of Music Education degrees are popular and possible next steps. Other degree possibilities include degrees in: music therapy, musicology, music composition, music theory, and ethnomusicology.

Possible careers for Associate of Music-earning students include: performing musician, music teacher, accompanist, music sales representative, music production operations, church musician, and much more.

Students seeking a music degree should also consider the AA Music Specialization degree on catalog page 58.

## PROGRAM OUTCOMES:

- Complete/qualify for transfer music theory placement exams.
- Complete/qualify for transfer piano proficiency exams.
- Apply basic musicianship and knowledge of the theoretical, historical, technological and practical backgrounds needed to understand how music is created, understood and performed.
- Recall knowledge of traditional history and of the cultural diversity and heritage in music.
- Critically evaluate music, applying terminology specific to the discipline.
- Demonstrate skills and technical proficiency in a selected area (vocal music or instrumental music) through rehearsals and performances.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above. The Associate of Music degree requires 104 credits.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

## Basic Requirements (15 credits)

### COMMUNICATION SKILLS (10 CREDITS)

- » ENGL& 101 ..... English Composition I (5)
- » English Composition/Speaking Skills (5)  
Select five additional credits from the Communication section of the Approved Distribution Course List.

### QUANTITATIVE REASONING SKILLS (5 CREDITS)

Select 5 credits from the Quantitative/Symbolic Reasoning section of the Approved Distribution Course List. A symbolic logic course that focuses on (a) sentence logic with proofs and (b) predicate logic with quantifiers and proofs and/or Aristotelian logic with Venn Diagrams will also satisfy this requirement.

# Associate of Music

## Distribution and Major Requirements (89 credits)

Individual credits may be counted in only one distribution or basic requirements area. (Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.)

### HUMANITIES (15 CREDITS)

- » MUSC& 141 ..... Music Theory I (5)
- » MUSC& 142 ..... Music Theory II (5)
- » Select 5 credits from courses other than Music in the Humanities section of the Approved Distribution Course List.

### SOCIAL SCIENCES (15 CREDITS)

Select courses from the Social Sciences section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.

### NATURAL SCIENCES (15 CREDITS)

Select courses from the Natural Sciences section or from the MATH courses listed under the Quantitative/Symbolic Reasoning section of the Approved Distribution Course List.

- » Courses must be selected from at least two disciplines.
- » No more than 10 credits allowed from any one discipline.
- » Must include at least 10 credits from the courses listed as Biological, Earth, and Physical Sciences.
- » Must include at least one laboratory course.

### MAJOR REQUIREMENTS (44 CREDITS)

The following courses are required for the Associate of Arts in Music degree (26 credits):

- » MUSC 124 ..... Class Applied Music: Piano I (2)
- » MUSC 125 ..... Class Applied Music: Piano II (2)
- » MUSC 126 ..... Class Applied Music: Piano III (2)
- » MUSC& 143 ..... Music Theory III (5)
- » MUSC& 241 ..... Music Theory IV (5)
- » MUSC& 242 ..... Music Theory V (5)
- » MUSC& 243 ..... Music Theory VI (5)

6 quarters of music Performance Ensemble – choir, band, orchestra, or jazz band (12 credits):

- » MUSC 152 ..... Chamber Choir I (2)
- » MUSC 160 ..... Orchestra I (2)
- » MUSC 161 ..... Symphonic Band I (2)
- » MUSC 165 ..... Jazz Band I (2)
- » MUSC 252 ..... Chamber Choir II (2)
- » MUSC 260 ..... Orchestra II (2)
- » MUSC 261 ..... Symphonic Band II (2)
- » MUSC 265 ..... Jazz Band II (2)

6 quarters of Applied Lessons on primary instrument. Applied Lessons are 1 credit per quarter. These are repeated for a total of 3 credits for each course. (6 credits)

- » MUSC 131 ..... Applied Lessons Strings I (1)
- » MUSC 231 ..... Applied Lessons Strings II (1)
- OR
- » MUSC 132 ..... Applied Lessons Brass I (1)
- » MUSC 232 ..... Applied Lessons Brass II (1)
- OR
- » MUSC 133 ..... Applied Lessons Woodwind I (1)
- » MUSC 233 ..... Applied Lessons Woodwind II (1)
- OR
- » MUSC 134 ..... Applied Lessons Percussion I (1)
- » MUSC 234 ..... Applied Lessons Percussion II (1)
- OR
- » MUSC 135 ..... Applied Lessons Keyboard I (1)
- » MUSC 235 ..... Applied Lessons Keyboard II (1)
- OR
- » MUSC 136 ..... Applied Lessons Voice I (1)
- » MUSC 236 ..... Applied Lessons Voice II (1)

### Total: 104 credits

#### NOTE:

Certain baccalaureate institutions have additional university-specific requirements that are not required for admission but will need to be completed prior to graduation from the college or university. See page 30 of the ICRC Handbook at [www.wa-council.org/icrc/](http://www.wa-council.org/icrc/).

# Associate of Arts in Pre-Nursing

(DTA/MRP Transfer Degree)

This TCC degree is designed for students who intend to transfer to a Bachelor of Science in Nursing program (BSN) at a baccalaureate institution (four-year college and university).

Students completing the pre-nursing degree, and who have met the minimum GPA requirement for the BSN program to which they are applying, will have met the prerequisites necessary to apply to most upper-division nursing programs in Washington.

Admittance to BSN programs is highly competitive. Completion of the pre-nursing associate degree does not guarantee admission. Students completing this track are not eligible to take National Council Licensure Examination (NCLEX) for Registered Nursing until they complete their BSN program.

Students wishing to become a registered nurse at TCC should talk with an advisor about an Associate in Nursing DTA/MRP.

Students pursuing the pre-nursing transfer degree are strongly advised to contact the potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with the potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

## PREPARATION

While in high school, students should complete all available courses in mathematics, chemistry and biology.

## PROGRAM PLANNING

Students should meet with advisors as soon as they are admitted to Tacoma Community College. Prerequisites for many courses are offered only once or twice a year and/or are sequential, so timely program completion depends on careful quarterly class selection. Certain colleges and universities have additional admission requirements. For example, some universities require two years of high school foreign language or two or three quarters of college foreign language, additional college-level math, practical experience in a healthcare setting, or specific additional courses. It is important to consult catalogs, websites and four-year college advisors early in the process.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits will apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

## Basic Requirements (15 credits)

### COMMUNICATION SKILLS (10 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

Select from the following approved courses:

- » ENGL& 102 ..... Composition II: Argument & Persuasion (5)
- » ENGL 103 ..... Composition III: Writing about Literature (5)

### QUANTITATIVE REASONING SKILLS (5 CREDITS)

- » MATH& 146 ..... Introduction to Statistics (5)

# Associate of Arts in Pre-Nursing

## Distribution Requirements (75 credits)

### HUMANITIES (15 CREDITS)

- » CMST& 220 ..... Public Speaking (5)

Select 10 additional credits from the Humanities section of the Approved Distribution Course List.

- » At least one course must be selected from a discipline other than Communication Studies (CMST).
- » At least 5 credits must be selected from a discipline other than Communication Studies (CMST).
- » No more than 5 credits in World Language at the 100 level.
- » No more than 5 credits in performance/skill (P/S) courses may be used to satisfy this requirement.

### SOCIAL SCIENCES (15 CREDITS)

- » PSYC& 100 ..... General Psychology (5)
- » PSYC& 200 ..... Lifespan Psychology (5)
- » Select 5 credits of Sociology (SOC) courses from the Social Sciences section of the Approved Distribution Course List.

### NATURAL SCIENCES (35 CREDITS)

- » CHEM& 121 ..... Introduction to Inorganic Chemistry (5)
- » CHEM& 131 ..... Introduction to Organic/Biochemistry (5)
- » BIOL& 160 ..... General Cell Biology (5)
- » NUTR& 101 ..... Human Nutrition (5)
- » BIOL& 241 ..... Human Anatomy and Physiology I (5)
- » BIOL& 242 ..... Human Anatomy and Physiology II (5)
- » BIOL& 260 ..... General Microbiology (5)

### PHYSICAL EDUCATION ACTIVITY (3 CREDITS)

- » Three activity credits including PE 100.
- » No more than three PE activity credits apply toward the degree.
- » The following PE courses do not count as activity credits: PE 190, PE 191, PE 285, PE 292.

### DISTRIBUTION ELECTIVES (2 CREDITS)

- » Distribution electives must be selected from courses listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, Natural Sciences, or General Distribution Courses sections of the Approved Distribution Course List. PE activity credits cannot be used as distribution electives.

## Other College-Level Electives (5 Credits)

- » All elective credits must be selected from courses numbered 100 or above.
- » PE activity credits cannot be used as electives.

### NOTE:

Certain baccalaureate institutions have additional university-specific requirements that are not required for admission but will need to be completed prior to graduation from the college or university. See page 30 of the ICRC Handbook at [www.wa-council.org/icrc/](http://www.wa-council.org/icrc/).

# Associate of Science Track 1

(AS-T1 Transfer Degree)

The Associate of Science Track 1 degree is designed for students who plan to transfer to specific science majors at baccalaureate institutions (four-year colleges and universities). Students pursuing this degree should select a Track 1 Specialization which will provide more focused requirements for students wishing to major in a specific area. These specializations meet the general Track 1 requirements while providing major specific coursework intended to prepare the student for transfer to a baccalaureate institution with junior standing.

Students who are not working toward a specialization are discouraged from simply picking classes off the general Track 1 course list without the help of a TCC advisor who understands the Associate of Science requirements, as this may significantly extend the time required to earn a Bachelor's degree.

Track 1 specializations include:

- Biology
- Chemistry
- Earth Science
- Environmental Science

These specializations may be found on the pages following the Track 1 general degree requirements.

Many classes required for the Associate of Science Degree are offered only once or twice a year. Students should work closely with Associate of Science advisors to plan their programs of study, including elective courses.

This degree does NOT satisfy all General Education requirements of baccalaureate institutions. Like students who begin their science studies at baccalaureate institutions as freshmen, students who transfer with Associate of Science degrees will typically be required to complete some general education requirements during their junior and senior years.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.
- Associate of Science students should work toward one of the approved Associate of Science Specializations (or Major Related Programs), which have been developed to allow students to transfer "junior-ready" into their baccalaureate major. Students should meet with a TCC advisor to determine which degree is the best fit for their long-term goals.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 .....English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 .....Calculus I (5)
- » MATH& 152 .....Calculus II (5) OR above

### Humanities & Social Sciences Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

# Associate of Science Track 1

## PRE-MAJOR PROGRAM REQUIREMENTS

Complete the Track 1 requirements. Students should work with a TCC advisor when selecting courses.

### Track 1 (Minimum of 45 credits)

- » CHEM& 161 .....General Chemistry w/Lab I (5)
- » CHEM& 162 .....General Chemistry w/Lab II (5)
- » CHEM& 163 .....General Chemistry w/Lab III (5)
- » MATH& 153 .....Calculus III (5)  
or MATH& 146.... Introduction to Statistics (5)

### ONE OF THESE COMPLETE SEQUENCES (15-18 CREDITS)

- » BIOL& 221 .....Intro. to Evolution, Ecology & Biodiversity (5)
- » BIOL& 222 .....Intro. to Cellular & Molecular Biology (5)
- » BIOL& 223 .....Intro. to the Biology of Organisms (5)
- » PHYS& 221 .....Engineering Physics - Mechanics (6)
- » PHYS& 222 .....Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 .....Engineering Physics - Waves, Optics and Thermodynamics (6)
- » PHYS& 114 .....General Physics I (6)
- » PHYS& 115 .....General Physics II (6)
- » PHYS& 116 .....General Physics III (6)

### ADDITIONAL REQUIREMENTS (MINIMUM OF 10 CREDITS)

- » Minimum of 10 credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors.

## COLLEGE-LEVEL ELECTIVES

- » Select remaining college level courses to reach a total of 90 credits.
- » All elective credits must be selected from courses numbered 100 or above.
- » No more than five credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, Natural Sciences, or General Distribution Courses sections of the Approved Distribution Course List.
- » Courses should be planned with an advisor based on the requirements of the specific discipline and the transfer institution.
- » No more than three Physical Education Activity credits may apply to this degree.

### NOTES:

- Some baccalaureate institutions require PHYS& 221 – 223 and will not accept PHYS& 114 – 116.
- Sequences should not be broken up between institutions.
- Students are responsible for checking specific major requirements of transfer institutions in the year prior to transferring.

## Associate of Science (AS-T1) Degree with BIOLOGY Specialization

The Biology Specialization of the Associate of Science Track 1 degree provides a well-rounded foundation to support students who wish to major in biology. This specialization prepares students to transfer as a biology major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree may need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses. (Note: TCC also offers an AA in Biology, which may be more appropriate for students in certain situations. Students are encouraged to meet with a Biology advisor to discuss which degree is recommended.)

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 1 degree and is appropriate for students studying biological sciences, including biology, botany, microbiology, and molecular biology.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (50 credits)

- » BIOL& 221 ..... Introduction to Evolution, Ecology and Biodiversity (5)  
(requires pre-requisite class: BIOL& 160)
- » BIOL& 222 ..... Introduction to Cellular and Molecular Biology (5)
- » BIOL& 223 ..... Introduction to the Biology of Organisms (5)
- » CHEM& 161 ..... General Chemistry w/ Lab I (5)  
(requires pre-requisite class: CHEM& 140)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)
- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » CHEM& 261 ..... Organic Chemistry w/ Lab I (5)
- » CHEM& 262 ..... Organic Chemistry w/ Lab II (5)
- » CHEM& 263 ..... Organic Chemistry w/ Lab III (5)
- » MATH& 146 ..... Introduction to Statistics (5)  
or MATH& 153.... Calculus III (5)

Select 10 credits to reach a total of 90 credits. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List. The following courses are highly recommended as electives:

- » PHYS& 114 ..... General Physics I (6)  
and PHYS& 115... General Physics II (6)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)  
and PHYS& 222.. Engineering Physics - Electricity and Magnetism (6)

## Associate of Science (AS-T1) Degree with CHEMISTRY Specialization

The Chemistry Science Specialization of the Associate of Science Track 1 degree provides a well-rounded foundation to support students who wish to major in chemistry. This specialization prepares students to transfer as a chemistry major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree may need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 1 degree and is appropriate for students studying chemistry.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences

#### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (53 credits)

- » CHEM& 161 ..... General Chemistry w/ Lab I (5)  
(requires pre-requisite class: CHEM& 140)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)
- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » CHEM& 261 ..... Organic Chemistry w/ Lab I (5)
- » CHEM& 262 ..... Organic Chemistry w/ Lab II (5)
- » CHEM& 263 ..... Organic Chemistry w/ Lab III (5)
- » MATH& 153 ..... Calculus III (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)

Select 7 credits to reach a total of 90 credits. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List.



## Associate of Science (AS-T1) Degree with EARTH SCIENCES Specialization

The Earth Sciences Specialization of the Associate of Science Track 1 degree provides a well-rounded foundation to support students who wish to major in earth sciences. This specialization prepares students to transfer as an earth sciences major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree may need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 1 degree and is appropriate for students studying earth sciences such as geology.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (43 credits)

- » MATH& 153 ..... Calculus III (5)
- » CHEM& 161 ..... General Chemistry w/ Lab I (5)  
(requires pre-requisite class: CHEM& 140)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)
- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » GEOL& 101 ..... Introduction to Physical Geology (5)

Select 17 credits to reach a total of 90 credits. At least 5 credits must be in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List. The following course is highly recommended as an elective:

- » GEOG 210 ..... Maps, GIS and the Environment (5)

## Associate of Science (AS-T1) Degree with ENVIRONMENTAL SCIENCES Specialization

The Environmental Sciences Specialization of the Associate of Science Track 1 degree provides a well-rounded foundation to support students who wish to major in environmental sciences. This specialization prepares students to transfer as an environmental sciences major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree may need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 1 degree and is appropriate for students studying environmental sciences.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5)

### Humanities & Social Sciences

#### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (46 credits)

- » CHEM& 161 ..... General Chemistry w/ Lab I (5)  
(requires pre-requisite class: CHEM& 140)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)
- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » BIOL& 221 ..... Introduction to Evolution, Ecology and Biodiversity (5)  
(requires pre-requisite class: BIOL& 160)
- » BIOL& 222 ..... Introduction to Cellular and Molecular Biology (5)
- » BIOL& 223 ..... Introduction to the Biology of Organisms (5)
- » MATH& 146 ..... Introduction to Statistics (5)  
or BUS 256 ..... Statistical Analysis (5)
- » PHYS& 114 ..... General Physics I (6)
- » GEOL& 101 ..... Introduction to Physical Geology (5)

Select 14 credits to reach a total of 90 credits. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List. Selection from the following courses is highly recommended:

- » ENV& 101 ..... Introduction to Environmental Science (5)
- » GEOL 179 ..... Special Topics in Geology (1-5)  
or OCEA 179 ..... Special Topics in Oceanography (1-5)  
or ENV& 179 ..... Special Topics in Environmental Science (2)
- » ENV& 210 ..... Maps, GIS and the Environment (5)  
or GEOG 210 ..... Maps, GIS and the Environment (5)

# Associate of Science Track 2

(AS-T2 Transfer Degree)

The Associate of Science Track 2 degree is designed for students who plan to transfer to specific science majors at baccalaureate institutions (four-year colleges and universities). Students pursuing this degree are encouraged to select a Track 2 Specialization or MRP (Major Related Program) which will provide more focused requirements for students wishing to major in a specific area. These specializations meet the general Track 2 requirements while providing major specific coursework intended to prepare the student for transfer to a baccalaureate institution with junior standing.

Students who are not working toward a specialization are discouraged from simply picking classes off the general Track 2 course list without the help of a TCC advisor who understands the Associate of Science requirements, as this may significantly extend the time required to earn a Bachelor's degree.

Track 2 specializations include:

- Astronomy
- Atmospheric Science
- Computer Engineering
- and Physics

These specializations may be found on the pages following the Track 2 general degree requirements.

In addition, the Track 2 includes four extended MRP degrees for those majoring in engineering disciplines. These MRPs require more than 90 credits to better prepare engineering students to meet the prerequisites in their chosen area of study.

The four AS-T2 MRP degrees are:

- Associate of Science in Bioengineering and Chemical Engineering (MRP)
- Associate of Science in Civil and Mechanical Engineering (MRP)
- Associate of Science in Computer and Electrical Engineering (MRP)
- Associate of Science in Material Science and Manufacturing Engineering (MRP)

The MRP requirements may be found on the pages following the Track 2 specializations.

Many classes required for the Associate of Science Degree are offered only once or twice a year. Students should work closely with Associate of Science advisors to plan their programs of study, including elective courses.

This degree does NOT satisfy all General Education requirements of baccalaureate institutions. Like students who begin their science studies at baccalaureate institutions as freshmen, students who transfer with Associate of Science degrees will typically be required to complete some general education requirements during their junior and senior years.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

## DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.
- Associate of Science students should work toward one of the approved Associate of Science Specializations (or Major Related Programs), which have been developed to allow students to transfer "junior-ready" into their baccalaureate major. Students should meet with a TCC advisor to determine which degree is the best fit for their long-term goals.

# Associate of Science Track 2

## Basic Requirements (15 credits)

### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

## Humanities & Social Sciences

### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

## PRE-MAJOR PROGRAM REQUIREMENTS

Complete the Track 2 requirements. Students should work with a TCC advisor when selecting courses.

### Track 2 (Minimum of 25 credits)

#### ONE OF THESE COMPLETE SEQUENCES (15-18 CREDITS)

- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » PHYS& 114 ..... General Physics I (6)
- » PHYS& 115 ..... General Physics II (6)
- » PHYS& 116 ..... General Physics III (6)

#### ONE OF THESE COURSES (5 CREDITS)

- » MATH& 153 ..... Calculus III (5)
- » MATH& 146 ..... Introduction to Statistics (5)

#### SELECT ONE OF THE FOLLOWING (5 CREDITS)

- » CHEM& 161 ..... General Chemistry w/Lab I (5)
- » Another science course may substitute for CHEM& 161 as appropriate for the intended transfer program and institution and after consultation with a Science advisor.

## COLLEGE-LEVEL ELECTIVES

- » Select remaining college level courses to reach a total of 90 credits.
- » All elective credits must be selected from courses numbered 100 or above.
- » No more than five credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, Natural Sciences, or General Distribution Courses sections of the Approved Distribution Course List.
- » Courses should be planned with an advisor based on the requirements of the specific discipline and the transfer institution.
- » No more than three Physical Education Activity credits may apply to this degree.

### NOTES:

- Some baccalaureate institutions require PHYS& 221 – 223 and will not accept PHYS& 114 – 116.
- Sequences should not be broken up between institutions.
- Students are responsible for checking specific major requirements of transfer institutions in the year prior to transferring.

## Associate of Science (AS-T2) Degree with ASTRONOMY Specialization

The Astronomy Specialization of the Associate of Science Track 2 degree provides a well-rounded foundation to support students who wish to major in astronomy. This specialization prepares students to transfer as an astronomy major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree will need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 2 degree and is appropriate for students studying astronomy.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences

#### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (48 credits)

- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » MATH& 254 ..... Calculus IV (5)
- » CHEM& 161 ..... General Chemistry w/ Lab I (5)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)

Select 12 credits to reach a total of 90 credits. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List. The following courses are highly recommended as electives:

- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » CS 142 ..... Java Programming for Engineers and Scientists I (5)
- or ENGR 240 ..... Applied Numerical Methods (5)
- » ASTR& 110 ..... The Solar System (5)
- » ASTR& 115 ..... Stars, Galaxies and the Cosmos (5)

## Associate of Science (AS-T2) Degree with ATMOSPHERIC SCIENCE Specialization

The Atmospheric Science Specialization of the Associate of Science Track 2 degree provides a well-rounded foundation to support students who wish to major in atmospheric science or meteorology. This specialization prepares students to transfer as an atmospheric science major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree will need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 2 degree and is appropriate for students studying atmospheric science.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences

#### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (53 credits)

- » MATH& 146 ..... Introduction to Statistics (5)
- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » MATH& 254 ..... Calculus IV (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » CHEM& 161 ..... General Chemistry w/ Lab I (5)
- » ENGR 240 ..... Applied Numerical Methods (5)

Select 7 credits to reach a total of 90 credits. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List. The following courses are highly recommended as electives:

- » CHEM& 162 ..... General Chemistry w/ Lab II (5)
- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » CS 142 ..... Java Programming for Engineers and Scientists I (5)

## Associate of Science (AS-T2) Degree with COMPUTER ENGINEERING Specialization

The Computer Engineering Specialization of the Associate of Science Track 2 degree provides a well-rounded foundation to support students who wish to major in computer engineering. This specialization prepares students to transfer as a computer engineering major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree will need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for engineering majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 2 degree. This degree is generally appropriate for students studying computer engineering, while the Associate of Science in Electrical and Computer Engineering (MRP) is usually advised for electrical engineering students only.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences

#### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (54 credits minimum)

- » CS 142 ..... Java Programming for Engineers and Scientists I (5)
- » CS 143 ..... Java Programming for Engineers and Scientists II (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » MATH& 254 ..... Calculus IV (5)
- » ENGR& 204 ..... Electrical Circuits (6)

This specialization requires a minimum of 5 credits from the following list. Selection depends on the intended engineering university. These 5 credits must be approved by an engineering advisor.

- » ENGL& 235 ..... Technical Writing (5)
- » ENGR& 224 ..... Engineering Thermodynamics (5)
- » ENGR 240 ..... Applied Numerical Methods (5)
- » CHEM& 161 ..... General Chemistry w/ Lab I (5)  
(requires pre-requisite class: CHEM& 140)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)

Select a minimum of 1 credit to reach a total of 90 credits. Electives may be chosen from the specializations list above.

## Associate of Science (AS-T2) Degree with PHYSICS Specialization

The Physics Specialization of the Associate of Science Track 2 degree provides a well-rounded foundation to support students who wish to major in physics. This specialization prepares students to transfer as a physics major with junior standing at our primary transfer institutions within the State of Washington.

Students receiving this degree will need to take additional General Education requirements at their baccalaureate institution during their junior and senior years, just like students who began their major at those institutions. This is due to the number of prerequisite math and science courses and sequences for science majors taken during the freshman and sophomore years.

Many classes required for the Associate of Science Degree are only offered once or twice per year. Students pursuing this degree are strongly advised to work with a TCC faculty advisor to plan their program of study, including the selection of elective courses.

Students pursuing this degree are strongly advised to contact their potential transfer institutions early regarding the specific course choices in each area of the degree. In addition, students should check with their potential transfer institutions about minimum GPA requirements, possible higher minimum GPA requirements in selected subsets of courses, and minimum grade requirements in specific courses.

The following course set fulfills the Specialization Requirement of the Associate of Science Track 2 degree and is appropriate for students studying physics.

### DEGREE COMPLETION REQUIREMENTS

- A minimum of 90 quarter credit hours in courses numbered 100 or above.
- At least 30 applicable credits earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college-level courses.
- No more than three physical education activity credits may apply toward the degree.
- At least five credits applied to the degree must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

### Basic Requirements (15 credits)

#### COMMUNICATIONS SKILLS (5 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

#### QUANTITATIVE SKILLS (10 CREDITS)

- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5) OR above

### Humanities & Social Sciences

#### Distribution Requirements (15 credits)

Most students use a Humanities or Social Sciences Distribution Course to fulfill the Multicultural degree requirement.

- » Select five Humanities credits from the Approved Distribution Course List.
- » Select five Social Sciences credits from the Approved Distribution Course List.
- » Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List.

### SPECIALIZATION COURSES (48 credits)

- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » MATH& 254 ..... Calculus IV (5)
- » CHEM& 161 ..... General Chemistry w/ Lab I (5)
- » CHEM& 162 ..... General Chemistry w/ Lab II (5)

Select 12 credits to reach a total of 90 credits. Elective courses should be selected based on major and transfer institution. See your advisor for suggestions. No more than 5 credits in this category may be from courses that are not listed under the Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, or General Distribution Courses sections of the Approved Distribution Course List. The following courses are highly recommended as electives:

- » CHEM& 163 ..... General Chemistry w/ Lab III (5)
- » CS 142 ..... Java Programming for Engineers and Scientists I (5)  
or ENGR 240 ..... Applied Numerical Methods (5)
- » ASTR& 110 ..... The Solar System (5)
- » ASTR& 115 ..... Stars, Galaxies and the Cosmos (5)



# Associate of Science in Bioengineering and Chemical Engineering

TCC's Associate of Science in Bioengineering and Chemical Engineering Degree is a state recognized Major Related Program (MRP) designed to provide a pathway for students who plan to transfer to a Bachelor of Science degree program in Bioengineering or Chemical Engineering. Students planning to transfer in Biomass Resource Science and Engineering should also follow this pathway. After completing the degree courses, the student must apply to graduate with the AS MRP degree.

Upon completion of this degree, students will be able to transfer to most four-year colleges and universities as juniors. Entry into many engineering programs is competitive. Completion of this degree does not guarantee admission into a specific engineering program. Courses in this pathway are relevant for multiple majors, so a course may apply to one particular major, but not another. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met. Students should check with their transfer institution for admission requirements, including overall minimum GPA, a higher GPA in a selected subset of course, or a specific minimum grade in one or more courses such as math or English. Admission deadlines for transfer institutions vary and students are required to meet the transfer admission deadline of their intended transfer institution. Students are encouraged to enroll in math and science sequence courses at a single institution and, if possible, not break up sequenced courses between institutions.

## SPECIALIZATION LEARNING OUTCOMES

Upon successful completion of the Associate of Science in Bioengineering and Chemical Engineering, students will:

- Apply principles of engineering, basic science (including calculus-based physics and chemistry), mathematics (including calculus, linear algebra, and differential equations), and engineering fundamentals coursework; to prepare students for transfer to an ABET accredited bachelor's degree program, and eventually to work professionally in bioengineering or chemical engineering fields.
- Communicate through multiple modes to address a variety of professional contexts.
- Express problems and solutions using both mathematical and non-mathematical languages.
- Compare, analyze and evaluate information and ideas to solve problems.
- Locate, evaluate, retrieve and ethically use relevant and current information of appropriate authority for academic or, as applicable, specific professional/ technical applications.
- Evaluate sources of error and/or bias in data sets.
- Apply engineering design processes to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Recognize ethical and professional responsibilities in engineering situations using relevant professional ethics codes, to and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

## DEGREE COMPLETION REQUIREMENTS

- 98-99 quarter credit hours listed in the degree. (Since many of these classes have prerequisites, the total number of credit hours required may be greater than 98-99. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.)
- At least 30 applicable credits must be earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college level courses.
- At least one course applied to the degree must be selected from the list of approved multicultural courses in the Approved Distribution Course list and in the Credit Course Descriptions.

## Associate of Science in Bioengineering and Chemical Engineering

### Basic Requirements (15 credits)

- » ENGL& 101 ..... English Composition I (5)
- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5)

### Humanities and Social Sciences (15 credits)

- » Humanities course from approved distribution list
- » Social Science course from approved distribution list - ENGR& 104 and Economics recommended
- » Select five additional Humanities or Social Science credits from the approved distribution list. (At least one course selected from Humanities or Social Sciences must be an approved multicultural course as identified on the approved distribution list.)

### Required Specialization Courses (48 credits)

- » MATH& 153 ..... Calculus III (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » CHEM& 161 ..... General Chemistry w/Lab I (5)
- » CHEM& 162 ..... General Chemistry w/Lab II (5)
- » CHEM& 163 ..... General Chemistry w/Lab III (5)
- » CHEM& 261 ..... Organic Chemistry w/Lab I (5)

### Additional Specialization Courses (Minimum of 20 credits)

Select a minimum of four of the following classes as appropriate for intended major and bachelor's institution. One of the classes must be CHEM& 262 or BIOL& 222 (you may take both).

ENGR& 104 may be taken either to meet a Social Science requirement OR to meet an Additional Specialization Course requirement, not both.

ENGR& 114 may be taken either to meet a Humanities requirement OR to meet an Additional Specialization Course requirement, not both.

- » BIOL& 221 ..... Introduction to Evolution, Ecology and Biodiversity (5)
- » BIOL& 222 ..... Introduction to Cellular and Molecular Biology (5)
- » CS 142 ..... Java Programming for Engineers and Scientists I (5)
- » CHEM& 262 ..... Organic Chemistry w/Lab II (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH& 254 ..... Calculus IV (5)
- » ENGR& 104 ..... Introduction to Engineering and Design (5)
- » ENGR 170 ..... Introduction to Materials Science (5)
- » ENGR& 204 ..... Electrical Circuits (6)
- » ENGR& 214 ..... Statics (5)
- » ENGR& 224 ..... Engineering Thermodynamics (5)
- » ENGR 240 ..... Applied Numerical Methods (5)
- » ENGL& 235 ..... Technical Writing (5)

# Associate of Science in Computer and Electrical Engineering

(MRP AS-T2 Transfer Degree)

TCC's Associate of Science in Computer and Electrical Engineering Degree is a state recognized Major Related Program (MRP) designed to provide a pathway for students who plan to transfer to a Bachelor of Science degree program in Computer Engineering or Electrical Engineering. After completing the degree courses, the student must apply to graduate with the AS MRP degree.

This MRP degree is generally the best fit for Electrical Engineering majors.

Computer Engineering majors may find that the Associate of Science Computer Engineering Specialization better fits their bachelor's degree requirements.

Upon completion of this degree, students will be able to transfer to most four-year colleges and universities as juniors.

Entry into many engineering programs is competitive. Completion of this degree does not guarantee admission into a specific engineering program.

Courses in this pathway are relevant for multiple majors, so a course may apply to one particular major, but not another. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met. Students should check with their transfer institution for admission requirements, including overall minimum GPA, a higher GPA in a selected subset of course, or a specific minimum grade in one or more courses such as math or English. Admission deadlines for transfer institutions vary and students are required to meet the transfer admission deadline of their intended transfer institution.

Students are encouraged to enroll in math and science sequence courses at a single institution and, if possible, not break up sequenced courses between institutions.

## SPECIALIZATION LEARNING OUTCOMES

Upon successful completion of the Associate of Science in Computer and Electrical Engineering, students will:

- Apply principles of engineering, basic science (including calculus-based physics and chemistry), mathematics (including calculus, linear algebra, and differential equations), and engineering fundamentals coursework; to prepare students for transfer to an ABET accredited bachelor's degree program, and eventually to work professionally in computer or electrical engineering fields.
- Communicate through multiple modes to address a variety of professional contexts.
- Express problems and solutions using both mathematical and non-mathematical languages.
- Compare, analyze and evaluate information and ideas to solve problems.
- Locate, evaluate, retrieve and ethically use relevant and current information of appropriate authority for academic or, as applicable, specific professional/ technical applications.
- Evaluate sources of error and/or bias in data sets.
- Apply engineering design processes to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Recognize ethical and professional responsibilities in engineering situations using relevant professional ethics codes, to and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

## DEGREE COMPLETION REQUIREMENTS

- 104 quarter credit hours listed in the degree. (Since many of these classes have prerequisites, the total number of credit hours required may be greater than 104. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.)
- At least 30 applicable credits must be earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.00 in all TCC college level courses.
- At least one course applied to the degree must be selected from the list of approved multicultural courses in the Approved Distribution Course list and in the Credit Course Descriptions.

## Associate of Science in Computer and Electrical Engineering

### Basic Requirements (15 credits)

- » ENGL& 101 ..... English Composition I (5)
- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5)

### Humanities and Social Sciences (15 credits)

- » Humanities course from approved distribution list - ENGR& 114 recommended.
- » Social Science course from approved distribution list - ENGR& 104 and Economics recommended.
- » Select five additional Humanities or Social Science credits from the approved distribution list. (At least one course selected from Humanities or Social Sciences must be an approved multicultural course as identified on the approved distribution list.)

### Required Specialization Courses (49 credits)

- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » CS 142 ..... Java Programming for Engineers and Scientists 1 (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » CHEM& 161 ..... General Chemistry w/Lab I (5)
- » ENGR& 204 ..... Electrical Circuits (6)

### Additional Specialization Courses (Minimum of 25 credits)

Select a minimum of five of the following classes as appropriate for intended major and bachelor's institution. ENGR& 104 may be taken either to meet a Social Science requirement OR to meet an Additional Specialization Course requirement, not both. ENGR& 114 may be taken either to meet a Humanities requirement OR to meet an Additional Specialization Course requirement, not both.

- » BIOL& 221 ..... Introduction to Evolution, Ecology, and Biodiversity (5)
- » CS 143 ..... Java Programming for Engineers and Scientists II (5)
- » CHEM& 162 ..... General Chemistry w/Lab II (5)
- » MATH& 254 ..... Calculus IV (5)
- » ENGR& 104 ..... Introduction to Engineering and Design (5)
- » ENGR& 214 ..... Statics (5)
- » ENGR& 215 ..... Dynamics (5)
- » ENGR& 224 ..... Engineering Thermodynamics (5)
- » ENGR 240 ..... Applied Numerical Methods (5)
- » ENGL& 235 ..... Technical Writing (5)

# Associate of Science in Materials Science and Manufacturing Engineering

(MRP AS-T2 Transfer Degree)

TCC's Associate of Science in Materials Science and Manufacturing Engineering Degree is a state recognized Major Related Program (MRP) designed to provide a pathway for students who plan to transfer to a Bachelor of Science degree in Materials Science Engineering or Manufacturing Engineering. After completing the degree courses, the student must apply to graduate with the AS MRP degree.

After completing the degree courses, the student must apply to graduate with the AS MRP degree. Upon completion of this degree, students will be able to transfer to most four-year colleges and universities as juniors. Entry into many engineering programs is competitive. Completion of this degree does not guarantee admission into a specific engineering program. Courses in this pathway are relevant for multiple majors, so a course may apply to one particular major, but not another. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met. Students should check with their transfer institution for admission requirements, including overall minimum GPA, a higher GPA in a selected subset of course, or a specific minimum grade in one or more courses such as math or English. Admission deadlines for transfer institutions vary and students are required to meet the transfer admission deadline of their intended transfer institution. Students are encouraged to enroll in math and science sequence courses at a single institution and, if possible, not break up sequenced courses between institutions.

## SPECIALIZATION LEARNING OUTCOMES

Upon successful completion of the Associate of Science in Materials Science and Manufacturing Engineering, students will:

- Apply principles of engineering, basic science (including calculus-based physics and chemistry), mathematics (including calculus, linear algebra, and differential equations), and engineering fundamentals coursework; to prepare students for transfer to an ABET accredited bachelor's degree program, and eventually to work professionally in materials science engineering or manufacturing engineering fields.
- Communicate through multiple modes to address a variety of professional contexts.
- Express problems and solutions using both mathematical and non-mathematical languages.
- Compare, analyze and evaluate information and ideas to solve problems.
- Locate, evaluate, retrieve and ethically use relevant and current information of appropriate authority for academic or, as applicable, specific professional/ technical applications.
- Evaluate sources of error and/or bias in data sets.
- Apply engineering design processes to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Recognize ethical and professional responsibilities in engineering situations using relevant professional ethics codes, to and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

## DEGREE COMPLETION REQUIREMENTS

- 108-109 quarter credit hours listed in the degree. (Since many of these classes have prerequisites, the total number of credit hours required may be greater than 108. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.)
- At least 30 applicable credits must be earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.0 in all TCC college level courses.
- At least one course applied to the degree must be selected from the list of approved multicultural courses in the Approved Distribution Course list and in the Credit Course Descriptions.

## Associate of Science in Materials Science and Manufacturing Engineering

### Basic Requirements (15 credits)

- » ENGL& 101 ..... English Composition I (5)
- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5)

### Humanities and Social Sciences (15 credits)

- » Humanities course from approved distribution list - ENGR& 114\* recommended.
- » Social Science course from approved distribution list - ENGR& 104\* and Economics recommended.
- » Select five additional Humanities or Social Science credits from the approved distribution list. (At least one course selected from Humanities or Social Sciences must be an approved multicultural course as identified on the approved distribution list.)

### Required Specialization Courses (48 credits)

- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » CHEM& 161 ..... General Chemistry w/Lab I (5)
- » ENGR 170 ..... Introduction to Materials Science (5)
- » ENGR& 214 ..... Statics (5)
- » ENGR& 225 ..... Mechanics of Materials (5)

### Additional Specialization Courses (Minimum of 25 credits)

Select a minimum of five of the following classes as appropriate for intended major and bachelor's institution.

ENGR& 104 may be taken either to meet a Social Science requirement OR to meet an Additional Specialization Course requirement, not both.

ENGR& 114 may be taken either to meet a Humanities requirement OR to meet an Additional Specialization Course requirement, not both.

- » CS 142 ..... Java Programming for Engineers and Scientists I (5)
- » MATH& 254 ..... Calculus IV (5)
- » CHEM& 162 ..... General Chemistry w/Lab II (5)
- » CHEM& 163 ..... General Chemistry w. Lab III (5)
- » CHEM& 261 ..... Organic Chemistry w/ Lab I (5)
- » ENGR& 104 ..... Introduction to Engineering and Design (5)
- » ENGR& 114 ..... Engineering Graphics (5)
- » ENGR& 215 ..... Dynamics (5)
- » ENGR& 224 ..... Engineering Thermodynamics (5)
- » ENGR 240 ..... Applied Numerical Methods (5)
- » ENGL& 235 ..... Technical Writing (5)

# Associate of Science in Civil and Mechanical Engineering

(MRP AS-T2 Transfer Degree)

TCC's Associate of Science in Civil and Mechanical Engineering Degree is a state recognized Major Related Program (MRP) designed to provide a pathway for students who plan to transfer to a Bachelor of Science degree program in Civil or Mechanical Engineering. Students planning to transfer in Environmental, Aeronautical or Industrial Engineering should also follow this pathway.

After completing the degree courses, the student must apply to graduate with the AS MRP degree. Upon completion of this degree, students will be able to transfer to most four-year colleges and universities as juniors. Entry into many engineering programs is competitive. Completion of this degree does not guarantee admission into a specific engineering program. Courses in this pathway are relevant for multiple majors, so a course may apply to one particular major, but not another. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met. Students should check with their transfer institution for admission requirements, including overall minimum GPA, a higher GPA in a selected subset of course, or a specific minimum grade in one or more courses such as math or English. Admission deadlines for transfer institutions vary and students are required to meet the transfer admission deadline of their intended transfer institution. Students are encouraged to enroll in math and science sequence courses at a single institution and, if possible, not break up sequenced courses between institutions.

## SPECIALIZATION LEARNING OUTCOMES

Upon successful completion of the Associate of Science in Civil and Mechanical Engineering, students will:

- Apply principles of engineering, basic science (including calculus-based physics and chemistry), mathematics (including calculus, linear algebra, and differential equations), and engineering fundamentals coursework; to prepare students for transfer to an ABET accredited bachelor's degree program, and eventually to work professionally in the civil, mechanical, environmental, aeronautical or industrial engineering fields.
- Communicate through multiple modes to address a variety of professional contexts.
- Express problems and solutions using both mathematical and non-mathematical languages.
- Compare, analyze and evaluate information and ideas to solve problems.
- Locate, evaluate, retrieve and ethically use relevant and current information of appropriate authority for academic or, as applicable, specific professional/ technical applications.
- Evaluate sources of error and/or bias in data sets.
- Apply engineering design processes to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Recognize ethical and professional responsibilities in engineering situations using relevant professional ethics codes, to and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

## DEGREE COMPLETION REQUIREMENTS

- 108-109 quarter credit hours listed in the degree. (Since many of these classes have prerequisites, the total number of credit hours required may be greater than 108. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.)
- At least 30 applicable credits must be earned at Tacoma Community College.
- A cumulative grade point average of 2.00 in all coursework applied to the degree, and a cumulative grade point average of 2.0 in all TCC college level courses.
- At least one course applied to the degree must be selected from the list of approved multicultural courses in the Approved Distribution Course list and in the Credit

## Associate of Science in Civil and Mechanical Engineering

Course Descriptions.

### Basic Requirements (15 credits)

- » ENGL& 101 ..... English Composition I (5)
- » MATH& 151 ..... Calculus I (5)
- » MATH& 152 ..... Calculus II (5)

### Humanities and Social Sciences (15 credits)

- » Humanities course from approved distribution list - ENGR& 114\* recommended.
- » Social Science course from approved distribution list - ENGR& 104\* and Economics recommended.
- » Select five additional Humanities or Social Science credits from the approved distribution list. (At least one course selected from Humanities or Social Sciences must be an approved multicultural course as identified on the approved distribution list.)

### Required Specialization Courses (58 credits)

- » MATH& 153 ..... Calculus III (5)
- » MATH 220 ..... Linear Algebra (5)
- » MATH 238 ..... Elements of Differential Equations (5)
- » PHYS& 221 ..... Engineering Physics - Mechanics (6)
- » PHYS& 222 ..... Engineering Physics - Electricity and Magnetism (6)
- » PHYS& 223 ..... Engineering Physics - Waves, Optics and Thermodynamics (6)
- » CHEM& 161 ..... General Chemistry w/Lab I (5)
- » CHEM& 162 ..... General Chemistry w/Lab II (5)
- » ENGR& 214 ..... Statics (5)
- » ENGR& 215 ..... Dynamics (5)
- » ENGR& 225 ..... Mechanics of Materials (5)

### Additional Specialization Courses (Minimum of 20-21 credits)

Select a minimum of four of the following classes as appropriate for intended major and bachelor's institution. ENGR& 104 may be taken either to meet a Social Science requirement OR to meet an Additional Specialization Course requirement, not both. ENGR& 114 may be taken either to meet a Humanities requirement OR to meet an Additional Specialization Course requirement, not both.

- » BIOL& 221 ..... Introduction to Evolution, Ecology and Biodiversity (5)
- » CS 142 ..... Java Programming for Engineers and Scientists I (5)
- » CHEM& 163 ..... General Chemistry w/Lab III (5)
- » MATH& 254 ..... Calculus IV (5)
- » ENGR& 104 ..... Introduction to Engineering and Design (5)
- » ENGR& 114 ..... Engineering Graphics (5)
- » ENGR& 224 ..... Engineering Thermodynamics (5)
- » ENGR 240 ..... Applied Numerical Methods (5)
- » ENGL& 235 ..... Technical Writing (5)



# Associate in General Studies

TCC's Associate in General Studies degree is designed for students who want to earn associate degrees while allowing for maximum flexibility in course selection.

This degree is not considered a transfer degree nor is it included in Washington's Inter-College Transfer and Articulation Agreement. Four-year colleges and universities may accept some courses used to satisfy requirements of this degree as transfer credit. Courses applied to TCC's Associate in General Studies degree are usually individually evaluated by transfer institutions. Students who plan to transfer to four-year colleges and universities are strongly advised to pursue the Associate of Arts degree, which is a transfer degree.

## COURSES APPLICABLE TO AGS DEGREE

Students pursuing Associate in General Studies degrees must select courses from the Approved Distribution Course List to meet Humanities, Math/Science and Social Sciences distribution requirements. Each credit can be counted in only one distribution area.

With the exception of English composition and physical education activity courses, any TCC course numbered 100 and above and not used to satisfy Humanities, Math/Science or Social Sciences distribution requirements are considered to be electives and may be used to satisfy the elective requirement portion of the 90 total quarter hour degree.

## DEGREE COMPLETION REQUIREMENTS

- A cumulative college-level grade point average of 2.00 in course work completed at Tacoma Community College.
- A combined cumulative grade point average of 2.00 in TCC and transfer college-level coursework.
- At least 30 applicable credits must be earned at Tacoma Community College.
- Ninety (90) quarter hours in courses numbered 100 or above, including the following requirements.
- No more than three physical education activity credits can be applied to the degree.

## Distribution Requirements

Credits may be applied to only one distribution area. See the Approved Distribution Course List.

### COMMUNICATIONS (10 CREDITS)

- » ENGL& 101 ..... English Composition I (5)  
and one of the following:
- » ENGL& 102 ..... Composition II: Argument and Persuasion (5)
- » ENGL 103 ..... Composition III: Writing about Literature (5)
- » CMST& 101 ..... Introduction to Communication (5)
- » CMST 110 ..... Multicultural Communication (5)
- » CMST& 220 ..... Public Speaking (5)

### HUMANITIES (10 CREDITS)

- » Select five credits from each of the following:  
Performing and Fine Arts (Music, Art); Literary Arts (Literature, World Language, Humanities, Philosophy)

### SOCIAL SCIENCE (10 CREDITS)

- » Select five credits from two of the following:  
Social Sciences (Economics, Geography, Political Science); Behavioral Science (Anthropology, Psychology, Sociology); History

### MATH/SCIENCE (10 CREDITS)

Select five credits from two of the following:

- » Natural Science (Astronomy, Biology, Botany, Environmental Science, Nutrition, Science)
- » Physical Science (Chemistry, Geography, Geology, Oceanography, Physics, Physical Science)
- » Mathematics (100 or above)
- » ANTH& 205 ..... Biological Anthropology
- » ANTH& 245 ..... Primatology
- » GEOG 205 ..... Physical Geography (lab)

### PHYSICAL EDUCATION (3 CREDITS)

- » Select any three activity credits

### ELECTIVES (47 CREDITS)

**Total:            90 credits**

# Approved Distribution Course List

Each Associate Degree includes basic English and math requirements, which are identified with the degree descriptions. All transfer degrees also include Humanities, Social Sciences, Natural Sciences and Multicultural Distribution Requirements. Courses that satisfy Distribution Requirements for these degrees are identified below. General Distribution courses can also be used to meet some degree requirements.

This list applies to TCC's Associate of Arts and Associate of Science degrees.

(P/S) = Performance/Skills courses use a mix of lecture, guided activities, and individual projects as teaching and learning methods. These courses often include creative projects and performances. These courses typically include: studio art, music ensembles and creative writing courses.

Upper divisional courses (300-400) have additional entry requirements and are primarily for students in Bachelor of Applied Science (BAS) programs.

## Communication

ENGL& 101	English Composition I
ENGL& 102	Composition II: Argument & Persuasion
ENGL 103	Composition III: Writing about Literature
ENGL& 235	Technical Writing
ENGL& 320	Professional & Organizational Communication
CMST 110	Multicultural Communication
CMST& 220	Public Speaking
CMST 330	Health Communication

## General Distribution

ACCT& 201	Principles of Accounting I
ACCT& 202	Principles of Accounting II
ACCT& 203	Principles of Accounting III
BUS 256	Statistical Analysis
CS 120	Computer Science Principles
CS 142	Java Programming for Engineers & Scientists I
CS 143	Java Programming for Engineers & Scientists II
ECED& 105	Introduction to Early Childhood Education
EDUC& 115	Child Development
ENGR& 170	Introduction to Materials Science
ENGR& 204	Electrical Circuits
ENGR& 214	Statics
ENGR& 215	Dynamics
ENGR& 224	Engineering Thermodynamics
ENGR& 225	Mechanics of Materials
ENGR 240	Applied Numerical Methods

## Humanities

*(P/S) = Performance/Skills courses. No more than five credits of Performance/Skills courses may be used to satisfy the Humanities distribution requirement.*

ANTH& 207	Linguistic Anthropology
ART& 100	Art Appreciation
ART 102	Two-Dimensional Design (P/S)
ART 103	Three-Dimensional Design (P/S)
ART 105	Beginning Drawing (P/S)
ART 106	Advanced Drawing (P/S)
ART 110	Beginning Graphic Design (P/S)
ART 111	Intermediate Graphic Design (P/S)
ART 131	Beginning Ceramics (P/S)
ART 132	Intermediate Ceramics I (P/S)
ART 133	Intermediate Ceramics II (P/S)
ART 146	Beginning Photography (P/S)
ART 147	Intro. to Digital Photography (P/S)
ART 150	Beginning Printmaking (P/S)
ART 156	Beginning Painting (P/S)
ART 172	Beginning Sculpture (P/S)
ART 180	Art for Elementary Education
ART 199	Gallery Viewing Lab
ART 201	History of Western Art: Ancient
ART 202	History of Western Art: Medieval & Renaissance
ART 203	History of Western Art: Baroque through Modern
ART 231	Low-Fire Ceramics (P/S)
ART 232	Surface Embellishment and Form Alteration (P/S)
ART 247	Intermediate Digital Photography (P/S)
ART 296	Special Projects in Art (P/S)
CHIN& 121	Chinese I
CHIN& 122	Chinese II
CHIN& 123	Chinese III
CMST& 101	Introduction to Communication
CMST 110	Multicultural Communication
CMST& 210	Interpersonal Communication
CMST& 220	Public Speaking
CMST 320	Professional and Organizational Communication
ENGL& 220	Introduction to Shakespeare
ENGL& 226	British Literature I
ENGL& 227	British Literature II
ENGL 234	Introduction to Mythology and Folk Stories
ENGL 242	Contemporary Non-Western Literature
ENGL& 244	American Literature I
ENGL& 245	American Literature II
ENGL& 246	American Literature III
ENGL 261	The Bible as Literature
ENGL 262	Children's Literature



# Approved Distribution Course List

GERM& 121	German I
GERM& 122	German II
GERM& 123	German III
GERM 201	Intermediate German I
GERM 202	Intermediate German II
HIST& 126	World Civilizations I
HIST& 127	World Civilizations II
HIST& 128	World Civilizations III
HIST 210	History of Modern Europe
HIST 211	History of China
HIST& 219	Native American History
HIST& 220	African-American History
HIST 230	History of Japan
HIST 231	American History, American Film
HIST 240	Religion in America
HUM& 101	Introduction to Humanities
HUM 110	Introduction to Pacific Rim Cultures
HUM& 116	Humanities I
HUM& 117	Humanities II
HUM& 118	Humanities III
HUM 120	The American Multicultural Arts Experience
JAPN& 121	Japanese I
JAPN& 122	Japanese II
JAPN& 123	Japanese III
MUSC 106	World Music
PSYC& 200	Lifespan Psychology
SOC& 101	Introduction to Sociology
SOC 120	Introduction to Women's Studies
SOC& 201	Social Problems
SOC 205	Sociology of African Americans
SOC 222	Sociology of Sport
SOC 238	Sociology of Latinx Americans
SOC 255	Sociology of Military and Society
SOC 262	Race and Ethnic Relations
SOC 265	Sociology of Asian Americans
SOC 287	Sociology of Gender and Sexuality
SPAN& 121	Spanish I
SPAN& 122	Spanish II
SPAN& 123	Spanish III
SPAN& 221	Intermediate Spanish I
SPAN& 222	Intermediate Spanish II
SPAN& 223	Intermediate Spanish III

## Non-distribution Multicultural Courses

The following approved multicultural courses do not satisfy any distribution requirements. They do satisfy the Multicultural degree requirement and may apply to the Other College-Level Elective requirement.

CHP 260	Global Health
CHP 440	Health, Culture, and Diversity
ECE 130	Cultural Competency and Responsiveness in Early Childhood Education
HD 110	Human Relations
HSP 126	Cultural Competencies for Human Services

## Natural Sciences

### Biological, Earth, and Physical Sciences courses:

ASTR& 110	The Solar System (lab)
ASTR& 115	Stars, Galaxies, and the Cosmos (lab)
BIOL& 100	Survey of Biology (lab)
BIOL 105	Fossils and the History of Life (lab)
BIOL 125	Biology in the Field (lab)
BIOL 140	Marine Biology (lab)
BIOL& 160	General Cell Biology (lab)
BIOL& 175	Human Biology (lab)
BIOL 179	Special Topics in Biology
BIOL& 221	Intro. to Evolution, Ecology and Biodiversity (lab)
BIOL& 222	Intro. to Cellular and Molecular Biology (lab)
BIOL& 223	Intro. to the Biology of Organisms (lab)
BIOL& 241	Human Anatomy and Physiology 1 (lab)
BIOL& 242	Human Anatomy and Physiology 2 (lab)
BIOL 243	Current Advances in Human Anatomy & Physiology (lab)
BIOL& 260	General Microbiology (lab)
BOT 101	General Botany (lab)
BOT 179	Special Topics in Botany
CHEM& 110	Chemical Concepts with Lab
CHEM& 121	Introduction to Inorganic Chemistry with Lab
CHEM& 131	Survey of Organic and Biochemistry with Lab
CHEM& 140	General Chemistry Prep with Lab
CHEM& 161	General Chemistry with Lab I
CHEM& 162	General Chemistry with Lab II
CHEM& 163	General Chemistry with Lab III
CHEM& 261	Organic Chemistry with Lab I
CHEM& 262	Organic Chemistry with Lab II
CHEM& 263	Organic Chemistry with Lab III
ENVS& 101	Introduction to Environmental Science (lab)

# Approved Distribution Course List

ENVS	105	Climate Change	MATH	147	College Algebra for Business and Economics
ENVS	179	Special Topics in Environmental Science	MATH&	148	Business Calculus
ENVS	210	Maps, GIS and the Environment (lab)	MATH&	151	Calculus I
GEOG	205	Physical Geography (lab)	MATH&	152	Calculus II
GEOG	210	Maps, GIS and the Environment (lab)	MATH&	153	Calculus III
GEOL&	101	Introduction to Physical Geology (lab)	MATH	179	Special Topics in Mathematics
GEOL	108	Fossils and the History of Life (lab)	MATH	220	Linear Algebra
GEOL	125	Geology in the Field (lab)	MATH	238	Elements of Differential Equations
GEOL	179	Special Topics in Geology	MATH&	254	Calculus IV
GEOL&	208	Geology of Pacific Northwest (lab)			
NUTR&	101	Human Nutrition (non-lab)			
OCEA&	101	Introduction to Oceanography (lab)			
OCEA	179	Special Topics in Oceanography			
PHYS&	114	General Physics I (lab)			
PHYS&	115	General Physics II (lab)			
PHYS&	116	General Physics III (lab)			
PHYS&	221	Engineering Physics - Mechanics (lab)			
PHYS&	222	Engineering Physics - Electricity and Magnetism (lab)			
PHYS&	223	Engineering Physics - Waves, Optics, and Thermodynamics (lab)			
SCI	105	Introductory Topics in Natural Science (lab)			

## General Sciences courses:

ANTH&	205	Biological Anthropology (non-lab)
ANTH&	237	Human Osteology (non-lab)
ANTH&	245	Primatology (non-lab)
HIT	160	Pathophysiology (non-lab)
HIT	161	Pathopharmacology (non-lab)
NUTR	250	Nutrition in Healthcare I (non-lab)
NUTR	251	Applied Nutrition for Nursing (non-lab)

## Physical Education

All PE courses count toward the Physical Education Activity distribution credits EXCEPT: PE 190, PE 191, PE 285 and PE 292.

## Quantitative / Symbolic Reasoning

Each of these courses, except MATH 136, carries a prerequisite of MATH 95 or MATH 140.

MATH&	107	Math in Society
MATH&	131	Math for Elementary Education 1
MATH&	132	Math for Elementary Education 2
MATH	136	Inferential Statistics
MATH&	141	Precalculus I
MATH&	142	Precalculus II
MATH&	146	Introduction to Statistics

MATH	147	College Algebra for Business and Economics
MATH&	148	Business Calculus
MATH&	151	Calculus I
MATH&	152	Calculus II
MATH&	153	Calculus III
MATH	179	Special Topics in Mathematics
MATH	220	Linear Algebra
MATH	238	Elements of Differential Equations
MATH&	254	Calculus IV

## Social Sciences

ANTH&	100	Survey of Anthropology
ANTH&	204	Archaeology
ANTH&	205	Biological Anthropology
ANTH&	206	Cultural Anthropology
ANTH&	207	Linguistic Anthropology
ANTH&	210	Indians of North America
ANTH&	237	Human Osteology
ANTH&	245	Primatology
BUS&	101	Introduction to Business
BUS	150	Global Business
BUS&	201	Business Law
BUS	310	Organizational and Interpersonal Behavior
BUS	330	Legal Environments in Business
ECON&	201	Micro Economics
ECON&	202	Macro Economics
EDUC&	205	Introduction to Education w/ Field Experience
EDUC	220	Diversity in Education
ENGR&	104	Introduction to Engineering and Design
HIST&	126	World Civilizations I
HIST&	127	World Civilizations II
HIST&	128	World Civilizations III
HIST&	146	U.S. History I
HIST&	147	U.S. History II
HIST&	148	U.S. History III
HIST	210	History of Modern Europe
HIST	211	History of China
HIST&	214	Pacific Northwest History
HIST&	219	Native American History
HIST&	220	African-American History
HIST	230	History of Japan
HIST	231	American History, American Film
HIST	240	Religion in America
HIST	244	The 1960s
HIST	249	America and the Rise to Globalism

# Approved Distribution Course List

POLS& 101	Introduction to Political Science
POLS& 201	Introduction to Political Theory
POLS& 202	American Government
POLS& 203	International Relations
POLS 231	Politics and Film
POLS 240	Environmental Politics and Sustainability
PSYC& 100	General Psychology
PSYC& 180	Human Sexuality
PSYC& 200	Lifespan Psychology
PSYC 202	Biopsychology
PSYC 205	Introduction to Personality
PSYC 209	Fundamentals of Psychological Research
PSYC& 220	Abnormal Psychology
PSYC 240	Social Psychology
PSYC 360	Health Psychology
SOC& 101	Introduction to Sociology
SOC 120	Introduction to Women's Studies
SOC 200	Intro. to Research Methods for Sociologists
SOC& 201	Social Problems
SOC 205	Sociology of African Americans
SOC 222	Sociology of Sport
SOC 238	Sociology of Latinx Americans
SOC 255	Sociology of Military and Society
SOC 262	Race and Ethnic Relations
SOC 265	Sociology of Asian Americans
SOC 271	Sociology of Deviance & Social Control
SOC 287	Sociology of Gender & Sexuality
SOCSC 204	Psychosocial Issues in Health Care I
SOCSC 205	Psychosocial Issues in Health Care II

## Writing Intensive

Recommended for some transfer students.

BUS 150	Global Business
ENGL& 220	Introduction to Shakespeare
ENGL& 226	British Literature I
ENGL& 227	British Literature II
ENGL 234	Introduction to Mythology and Folk Stories
ENGL 242	Contemporary Non-Western Literature
ENGL& 244	American Literature I
ENGL& 245	American Literature II
ENGL& 246	American Literature III
ENGL 261	The Bible as Literature
ENGL 262	Children's Literature
ENGL 271	Contemporary American Fiction
ENGL 276	Creative Writing – Fiction
ENGL 278	Creative Writing – Poetry
ENGL 280	Literatures of Diversity
HUM& 101	Introduction to Humanities
HUM& 116	Humanities I
HUM& 117	Humanities II
HUM& 118	Humanities III
PSYC 209	Fundamentals of Psychological Research

# Distinction Pathways

Distinction Pathways are informal, interdisciplinary sets of courses and experiences that provide a student with demonstrated expertise in the area of study and can help advance a student's interest—whether employability or greater competitiveness—upon transfer.

Distinction Pathways aid students in completion of distribution requirements with themed or skill-based clusters of courses and experiences.

## American Ethnic and Gender Studies

Coordinator: Andrew Cho, Professor of Sociology 253-566-5355  
 Stephen Johns, Professor of Communication Studies 253-460-4450  
 AEGS email: aegs@tacomacc.edu

TCC's American Ethnic and Gender Studies (AEGS) Distinction Pathway offers courses selected from a variety of disciplines, on topics related to gender and ethnicity in the United States. AEGS courses are intended for career training and college transfer students who want to understand complex gender, race, ethnic, and class issues, and are also available to community members interested in ethnicity and gender.

Students who successfully complete credits of coursework in AEGS may apply to earn the Distinction Pathway in American Ethnic and Gender Studies, which is noted on their transcripts. Courses used to satisfy the requirements of the AEGS Distinction Pathway simultaneously apply to other certificate or degree requirements satisfied by these courses, allowing students to select course sequences that support their educational and personal goals. See the online class schedule for course availability.

### Approved Courses

Select a total of four courses or 20 credit hours from the following list. C or better grades are required for courses to apply to the AEGS Distinction Pathway.

ANTH&	210	Indians of North America
CMST	110	Multicultural Communication
EDUC	220	Diversity in Education
HIST&	219	Native American History
HIST&	220	African-American History
HIST	240	Religion in America and the Modern World
HUM	120	The American Multicultural Arts Experience
PSYC&	180	Human Sexuality
SOC	120	Introduction to Women's Studies
SOC	205	Sociology of African Americans
SOC	222	Sociology of Sport
SOC	238	Sociology of Latinx Americans
SOC	255	Sociology of Military and Society
SOC	262	Race and Ethnic Relations
SOC	265	Sociology of Asian Americans
SOC	287	Sociology of Gender & Sexuality

Possible AEGS eligible courses depending on the quarter's curriculum focus:

BIOL&	100	Survey of Biology
CMST&	210	Interpersonal Communication
ENGL&	102	Composition II: Argument and Persuasion
ENGL	280	Literatures of Diversity
HUM	260	Themes or Topics in Humanities
NUTR	101	Human Nutrition
SOC	200	Research Methods for Sociologists
SOC&	201	Social Problems
SOC	271	Introduction to the Sociology of Deviance and Social Control

# Distinction Pathways

## Global Studies

Coordinator: John Falskow, Dean of Arts, Humanities, and Social Sciences  
253-460-4374  
Email: jfalskow@tacomacc.edu

The Global Studies Distinction Pathway (GSDP) introduces students to area, language, and intercultural studies that will help them in a wide variety of future careers. While the GSDP can build the foundations for majors in Global Studies, Business, Political Science, Human Services, and Humanities, the primary aim of the GSDP is to help students develop their intercultural knowledge and competence as conscientious global citizens.

There are no prerequisites for this pathway other than a statement of intent. This will be used to monitor and advise student progress within the pathway. All academic pre-requisites are included in the regularly published course and program level pre-requisites.

Students pursuing the GSDP will work with their academic advisors and the Global Studies coordinator to adopt and tailor specific course clusters from among the options listed that will best fit the student's career and academic goals. In a reflective Capstone requirement, students will have the opportunity to integrate their learning and demonstrate their progress.

### PROGRAM LEARNING OUTCOMES

Upon successful completion of the Global Studies Distinction Pathway, students will:

- Demonstrate detailed knowledge about other parts of the world; such as geography, history, cultures, political and economic systems.
- Analyze local/global systems through holistic and interdisciplinary perspectives.
- Develop intercultural communication skills through language study and/or multicultural communication practice.
- Identify your own intercultural biases and areas for growth.
- Assess the impact of your attitudes and behaviors on local/global communities.
- Translate your knowledge, global awareness, intercultural skills, and critical thinking into positive contributions to local/global communities.

### Foundations (3 course minimum)

Courses/sections in both area and cultural studies (also fulfill distribution credits - e.g. Multicultural, Humanities, Natural Science, Social Science). Additional courses may be added to the Foundations list through the Global Studies course approval process. All honors sections are Global Studies foundation classes.

## HUMANITIES

ART& 100 Art Appreciation; ENGL 242 Contemporary Non-Western Literature; HUM 110 Intro to Pacific Rim Cultures; HUM& 116, 117, 118 Humanities I,II,III; MUSC 106 World Music

## SOCIAL SCIENCE

ANTH& 206 Cultural Anthropology; BUS 150 Global Business; ECON& 202 Macroeconomics; HIST 210 History of Modern Europe; HIST 211 History of China; HIST 230 History of Japan; HIST 249 America & the Rise to Globalism; HIST& 126, 127, 128 World Civilizations I, II, III, POLS& 203 International Relations; PSYC& 200 Lifespan Psychology, SOC 120 Women's Studies

## NATURAL SCIENCE

ENVS 210 GIS and the Environment; ENVS& 101 Intro. to Environmental Science; SCI 105 Introductory Topics in Natural Science

## PROFESSIONAL AND TECHNICAL/OTHER

LOG 110 ..... International Logistics  
LOG 112 ..... Importing and Exporting  
CHP 360 ..... Global Health  
CHP 440 ..... Health Culture and Diversity

## Communications (1 course minimum)

Courses in language and multicultural/intercultural communication (also fulfills distribution credits - e.g. Multicultural, Humanities, Social Science). Additional courses may be added to the Communication list through the Global Studies course approval process.

- » ANTH& 207 ..... Linguistic Anthropology
- » CMST 110 ..... Multicultural Communication or a World Language at the 123+ level  
Requires full year of World Language or equivalent: CHIN& 123, GERM 123, JAPN& 123, SPAN& 123, SPAN& 221, SPAN& 222 and SPAN& 223.

## Application/Culmination/Capstone co-curricular, non-credit requirement

Capstone co-curricular experiences and portfolio with presentation. Options include:

- Study abroad/study away
- Intercultural service learning projects
- Applied research projects

Requirements include:

- Capstone application
- Portfolio and reflection (with committee approval)
- Presentation (with committee approval)
- Minimum 30 hours culturally immersive field work



# Distinction Pathways

## Sustainability

Coordinator: Shaun Henderson 253-460-4348

Email: [sdhenderson@tacomacc.edu](mailto:sdhenderson@tacomacc.edu)

Sustainability is the ability to meet the current human need for natural resources without compromising the ability of future generations to meet their needs. Sustainability issues fall into three main categories: environmental, social, and economic.

The Sustainability Distinction Pathway (SDP) allows students to explore the topic of sustainability as they pursue their regular course of study at TCC. The SDP provides students with college-level knowledge about sustainability through 20 credits of course work, without having to pursue a separate degree. Specific course requirements are not prescribed, instead students choose their 20 credits from a list of approved courses, according to their academic interests, schedule constraints, and broader degree requirements.

*Students should contact the Sustainability Distinction Pathways Coordinator before choosing their courses.*

The approved course pool contains two tiers of classes.

- In Tier 1, the major focus of the course is sustainability, with roughly 50 percent or more of the course outcomes addressing sustainability topics explicitly. Tier 1 courses include ENV&S 101, POLS 240 and SCI 105 (Topic: Climate Change).
- In Tier 2 classes, the instructor explores sustainability in a more limited way, with a minimum of one course outcome addressing sustainability. Tier 2 classes may be section specific. Contact the SDP Coordinator for details. Example courses include: BIOL& 100, ANTH& 206, ANTH& 245, ENGL& 101, ENGL& 102, PE 175, GEOL 179, OCEA& 101, OCEA 179, GEOG 210, BOT 101, SOC& 201, NUTR& 101, ECON& 201, BUS 150, POLS 231, BIOL 140, and PSYC 240.
- To earn the Sustainability Distinction, students are required to take one Tier 1 class and three others from either tier, for a total of 20 credits, with a grade of C or better in all four courses. Students must also complete a co-curricular project under the guidance of their Tier 1 course instructor.

# TCC Applied Bachelor Degrees

The Bachelor of Applied Science (BAS) degree builds on knowledge and skills learned in completion of an Associate degree, allowing students to obtain bachelor-level credentials in specialized career fields.

BAS degrees are carefully structured to allow for individual career advancement while meeting local community and employer needs for specialized career practitioners. Designed for working professionals, TCC's BAS degrees are offered online or in evenings and on weekends to the extent possible.

## BACHELOR OF APPLIED SCIENCE IN Applied Management

This applied baccalaureate degree in Applied Management brings together the theory and practice of business management. It prepares graduates to leverage the technical skills of any professional/technical associate degree so they can advance in their careers. It is a hybrid program (part in the classroom, part online) designed for working professionals.

This degree is appropriate for graduates of an associate degree program or anyone with 90 college-level credits, but especially for anyone with an associate degree in business and any business-related fields such as accounting, paralegal and human services.

Students choose from one of two specializations in their senior year: Project Management and Human Resource Management.

### PROGRAM CHAIR

Mary Jane Oberhofer  
253-566-5253 / moberhofer@tacomacc.edu

### PROGRAM OUTCOMES

- Evaluate and implement effective communication across all levels of the organization and to diverse audiences using language, tools, concepts and managerial principles necessary to achieve desired outcomes.
- Explain the value of diversity and community as related to business ventures with attention to the dynamics of power and privilege.
- Develop organizational management and leadership strategies using skills grounded in current theories and techniques for stability, growth and change.
- Demonstrate innovation and critical thinking, teamwork, and technical and information literacy commensurate with management positions.
- Analyze, evaluate, and implement decision-making strategies applying analytical tools, information systems and emerging technologies.
- Design programs which maximize human potential using principles and best practices of successful human resource management.
- Develop realistic and comprehensive project plans, identify risk areas, monitor the plans, and deal with problems through appropriate use of project management techniques.
- Distinguish between law and ethics; recommend acceptable resolutions of ethical issues and dilemmas to improve organizational outcomes and support social responsibility.
- Analyze data to solve problems, explain performance, make decisions, and identify opportunities.
- Prepare and explain cost control processes including the ability to establish a budget, prepare cost reports, and forecast expenditures.

### Pre-admission Requirements

- » Associate degree (or 90 college-level credits)
- » Students may be admitted to the program, but must complete the following lower division courses with an earned grade of C or higher prior to taking 300 level BUS courses: ENGL& 101 and MATH 136 or MATH& 146, CU 203 (or MOS Excel Core Level Certification)

### General Education Requirements (45 credits)

#### COMMUNICATION (10 CREDITS)

- » ENGL& 101 ..... Composition I (5)
- » 5 additional credits from the Communication distribution

#### HUMANITIES (10 CREDITS)

- » CMST 320..... Professional and Organizational Communication (5)
- » PHIL 320..... Ethical Decision Making (5)

#### SOCIAL SCIENCE (10 CREDITS)

- » BUS 310..... Organizational and Interpersonal Behavior (5)
- » BUS 330..... Legal Environments in Business (5)

#### NATURAL SCIENCE (10 CREDITS)

- » ENV& 101 ..... Introduction to Environmental Science (5)
- » 5 additional credits from the Natural Science distribution

#### QUANTITATIVE SKILLS (5 CREDITS)

- » Math 136 ..... Inferential Statistics (5)  
or Math&146... Introduction to Statistics (5)

## BACHELOR OF APPLIED SCIENCE IN Applied Management

### Core Requirements (45-50 credits)

- » BUS 300 ..... Foundations of Management Theory and Practice (5)
- » BUS 320 ..... Managerial Accounting (5)
- » BUS 340 ..... Financial Management (5)
- » BUS 350 ..... Fundamentals of Project Management (5)
- » BUS 360 ..... Fundamentals of Human Resource Management (5)
- » BUS 400 ..... Economics for Managers (5)
- » BUS 410 ..... Operations and Logistics (5)
- » BUS 420 ..... Digital and Social Media Management (5)
- » BUS 430 ..... Business Strategy and Sustainability (5)
- » BUS 480 ..... Applied Management Internship (optional) (2-5)
- » Choose one Specialization (15)

### General College Level Electives (70-75 credits)

Any college-level course will meet these requirements.

Recommend courses in business disciplines.

General Electives should ideally include the following:

- » BUS& 101 ..... Introduction to Business (5)
- » BUS& 201 ..... Business Law (5)
- » ACCT 101 ..... Practical Accounting (5)
- or ACCT&201 .. Principles of Accounting (5)

## Specialty Tracks

Choose one specialty track to complete degree.

### Human Resources Specialization (15 credits)

- » BUS 442 ..... Intermediate Human Resource Management (5)
- » BUS 452 ..... Advanced Human Resources (5)
- » BUS 462 ..... Human Resource Management Capstone (5)

### Project Management Specialization (15 credits)

- » BUS 441 ..... Intermediate Project Management (5)
- » BUS 451 ..... Advanced Project Management (5)
- » BUS 461 ..... Project Management Capstone (5)

## BACHELOR OF APPLIED SCIENCE IN Applied Management

### Human Resources Management Certificate

A 15-credit certificate preparing students for a career in human resources management. The certificate comprises: BUS 442: Intermediate Human Resources Management (5 credits); BUS 452: Advanced Human Resources Management (5 credits); and BUS 462: Human Resource Management Capstone (5 credits).

#### CAREER OPPORTUNITIES

Recruiter, Employment Representative, Human Resources Analyst, Human Resources Coordinator, Human Resources Generalist.

#### PROGRAM OUTCOMES

- Evaluate and implement effective communication across all levels of the organization and to diverse audiences using language, tools, concepts and managerial principles necessary to achieve desired outcomes.
- Explain the value of diversity and community as related to business ventures with attention to the dynamics of power and privilege.
- Develop organizational management and leadership strategies using skills grounded in current theories and techniques for stability, growth and change.
- Demonstrate innovation and critical thinking, teamwork, and technical and information literacy commensurate with management positions.
- Analyze, evaluate, and implement decision-making strategies applying analytical tools, information systems and emerging technologies.
- Design programs which maximize human potential using principles and best practices of successful human resource management.
- Develop realistic and comprehensive project plans, identify risk areas, monitor the plans, and deal with problems through appropriate use of project management techniques.
- Distinguish between law and ethics; recommend acceptable resolutions of ethical issues and dilemmas to improve organizational outcomes and support social responsibility.
- Analyze data to solve problems, explain performance, make decisions, and identify opportunities.
- Prepare and explain cost control processes including the ability to establish a budget, prepare cost reports, and forecast expenditures.

#### Certificate Course Requirements (15 credits)

- » BUS 442 ..... Intermediate Human Resource Management (5)
- » BUS 452 ..... Advanced Human Resources (5)
- » BUS 462 ..... Human Resource Management Capstone (5)

## BACHELOR OF APPLIED SCIENCE IN Applied Management

### Project Management Certificate

A 15-credit certificate preparing students for a career in project management. The certificate comprises: BUS 441: Intermediate Project Management (5 credits); BUS 451: Advanced Project Management (5 credits); and BUS 461: Project Management Capstone (5 credits).

#### **Certificate Course Requirements (15 credits)**

- » BUS 441 ..... Intermediate Project Management (5)
- » BUS 451 ..... Advanced Project Management (5)
- » BUS 461 ..... Project Management Capstone (5)

#### **CAREER OPPORTUNITIES**

Purchasing Manager, General Manager, Business Analyst, Management Analyst, Management Consultant, Project Management Analyst, Quality Control Analyst.

#### **PROGRAM OUTCOMES**

- Evaluate and implement effective communication across all levels of the organization and to diverse audiences using language, tools, concepts and managerial principles necessary to achieve desired outcomes.
- Explain the value of diversity and community as related to business ventures with attention to the dynamics of power and privilege.
- Develop organizational management and leadership strategies using skills grounded in current theories and techniques for stability, growth and change.
- Demonstrate innovation and critical thinking, teamwork, and technical and information literacy commensurate with management positions.
- Analyze, evaluate, and implement decision-making strategies applying analytical tools, information systems and emerging technologies.
- Design programs which maximize human potential using principles and best practices of successful human resource management.
- Develop realistic and comprehensive project plans, identify risk areas, monitor the plans, and deal with problems through appropriate use of project management techniques.
- Distinguish between law and ethics; recommend acceptable resolutions of ethical issues and dilemmas to improve organizational outcomes and support social responsibility.
- Analyze data to solve problems, explain performance, make decisions, and identify opportunities.
- Prepare and explain cost control processes including the ability to establish a budget, prepare cost reports, and forecast expenditures.

# BACHELOR OF APPLIED SCIENCE IN Health Information Management

This Bachelor of Applied Science degree brings together aspects of the clinical, business, technology, and legal disciplines to prepare graduates for a career in the management of health information.

Appropriate for graduates of health-related or business-related associate degrees, the HIM BAS degree prepares students to work effectively in the increasingly integrated and technologically complex field of Health Information Management.

The HIM program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Graduates are eligible to sit for the Registered Health Information Administrator (RHIA) national credential exam.

## PROGRAM CHAIR

Corinne Jarvis, M.Ed., RHIA, CHDA  
253-566-5077 / cjarvis@tacomacc.edu

## PROGRAM OUTCOMES

- Evaluate and manage strategies, policies, and procedures surrounding health record content, data management & integrity, information governance, and clinical classification systems.
- Recommend systems to ensure the protection of health information, including privacy and security strategies, retention standards, and regulatory compliance.
- Analyze and Interpret data and implement technology used in informatics, to include analytics, health care statistics, research methodologies, database management, and health information exchange.
- Manage the revenue life cycle through reimbursement processes that ensure compliance with regulatory requirements, coding guidelines and payment systems.
- Interpret policies and procedures for compliance with local, state and federal laws to include HIPAA, accreditation, licensing and certification, fraud surveillance, quality improvement and risk management.
- Evaluate and integrate culturally responsive and diverse practices, policies and procedures that support successful leadership in the areas of change management, work design, process improvement, human resource management, training and development, strategic and organizational management, financial management, project management, vendor/contract management, and enterprise information management.

## Pre-admission Requirements

- » Associate degree (or 90 college-level credits)
- » Students may be admitted to the program, but must complete the following lower division courses with an earned grade of C or higher prior to taking 300 level HIM courses: ENGL&101, BIO&175, HIT 160, and MATH& 146 or MATH 136

## General Education Requirements (45 credits)

### COMMUNICATION (10 CREDITS)

- » ENGL&101 ..... English Composition I (5)
- » ENGL 301..... Professional Writing and Communication in Healthcare (5)

### HUMANITIES (10 CREDITS)

- » PHIL&101 ..... Introduction to Philosophy (5)
- » 5 additional credits - recommend choosing from the following:
- » CMST 110..... Multicultural Communication (5)
- » CMST&210 ..... Interpersonal Communication (5)
- » CMST 320..... Professional and Organizational Communication (5)

### SOCIAL SCIENCE: (10 CREDITS)

- » PSYC 301 ..... Fundamentals of Research for Healthcare (5)
- » 5 additional credits - recommend choosing from the following:
- » PSYC&100..... General Psychology (5)
- » PSYC&220..... Abnormal Psychology (5)
- » PSYC 360 ..... Health Psychology (5)
- » SOC 262 ..... Race and Ethnic Relations (5)

### NATURAL SCIENCE (10 CREDITS)

- » BIOL&175 ..... Human Biology w/ Lab (5)
- » HIT 160..... Pathophysiology (5)

### QUANTITATIVE SKILLS (5 CREDITS)

- » Math 136 ..... Inferential Statistics (5)  
or Math&146... Introduction to Statistics (5)

## BACHELOR OF APPLIED SCIENCE IN Health Information Management

### Core Requirements (61 credits)

- » LS 301 ..... Research Skills for BAS (2)
- » HIM 301..... Foundations in Health Information (5)
- » HIM 315 ..... Health Law (3)
- » HIM 320..... Information Protection (3)
- » HIM 325..... Health Data Structure & Quality (5)
- » HIM 330..... Classifications and Coding (5)
- » HIM 335..... Organizational Management in Healthcare (5)
- » HIM 415 ..... Foundations of Data, Data Analytics and Data Visualization (5)
- » HIM 425..... Information Governance (5)
- » HIM 435..... Revenue Cycle Management (5)
- » HIM 445..... Applied Data, Data Analytics and Data Visualization (5)
- » HIM 465..... Health Compliance (5)
- » HIM 475..... Leadership in Healthcare (5)
- » HIM 485..... Capstone/Internship (5)

### General College Level Electives (74 credits)

Can include any college level course. Students will work with advisors to choose appropriate classes based on their previous education and work experience. Topics should include the following:

- » CU 103 ..... Excel I (3)
- » CU 110 ..... Access I (2)
- » CU 203 ..... Excel II (3)
- » CU 210 ..... Access II (3)
- » HIM 290 ..... Introduction to Medical Coding (5)
- » HIM 295 ..... Computer Concepts for Health Information (5)
- » HIM 299 ..... Individual Study in HIM (1-6)
- » HIT 130 ..... Medical Terminology I (3)
- » HIT 141 ..... Outpatient Diagnostic Coding (2)
- » HIT 179 ..... Ethical Issues in Health Information Technology Seminar (1)
- » HIT 221 ..... Intermediate Coding (5)
- » IT 246 ..... Database Implementation (5)
- » MO 159 ..... Introduction to Outpatient Procedure Coding (4)



## BACHELOR OF APPLIED SCIENCE IN **Community Health**

This Bachelor of Applied Science degree will pair the clinical background of current health professionals with community health theory to provide clinicians who can make an immediate impact in their local communities.

The Community Health Professional BAS degree will take clinical knowledge and augment it with the addition of community health factors to include population health, primary prevention, patient education, and quality improvement.

The integration of community health into the clinical background will create a well-rounded, holistic individual who possess not only clinical knowledge, but will see the larger issues surrounding the health of our local community to include social issues, legislation and reimbursement (population health), education of the public (primary prevention and patient education), and improving the quality of care (quality improvement) for our community health partners.

These professionals will be an asset to many different types of organizations to include hospitals, home health agencies, governmental agencies, public and community health agencies, insurance agencies, large physician practices, and private practice.

### PROGRAM CHAIR

Community Health Professional Specialization

Brinda Sivaramakrishnan

253-566-3954 / bsivaramakrishnan@tacomacc.edu

Community Health Professional and Respiratory Care  
Specialization

Brandon Censon

253-566-5214 / bcenson@tacomacc.edu

Community Health Respiratory Care Specialization

Greg Carter

253-566-5231 / gcarter@tacomacc.edu

### PROGRAM OUTCOMES

Upon successful completion of this program, students will be able to:

- Identify and critique the influences of community health policies and practices on past, present, and future critical health issues of society
- Identify the fundamental principles of community health to individual, community, and population health issues as well as disease incidence and prevalence
- Examine the causes and prevalence of chronic and infectious diseases and describe prevention, maintenance, and treatment strategies
- Describe the role of theory in health promotion, research, and practice to understand and change environmental and behavioral factors
- Identify and critique the impact of health disparities in health behaviors, intervention strategies, community health policies, and access to quality healthcare
- Critique cultural, legal, policy, and ethical factors that influence health status of individuals and populations
- Use appropriate research and statistical tools and techniques to evaluate community health data related to outcomes, prevention, management, and treatment approaches

- Identify culturally sensitive approaches to health communication with individuals, groups, communities, and populations
- Develop and appraise community programs and interventions through assessment, planning, implementation, and evaluation
- Practice team collaboration, leadership, and management skills in a variety of settings
- Use effective written and oral skills to communicate with different populations within a given community
- Create and deliver patient/client/community education

### Pre-admission Requirements

- » Associate degree in health (or 90 college level credits) or Associate degree (or 90 college level credits) in another subject with 1 year of healthcare experience
- » Students may be admitted to the program, but must complete the following lower division courses with an earned grade of C or higher prior to taking 300 level CH courses: ENGL& 101 and MATH 136 or MATH& 146

### General Education Requirements (45 credits)

#### COMMUNICATION (10 CREDITS)

- » ENGL&101 ..... English Composition I (5)
- » ENGL 301 ..... Professional Writing and Communication in Healthcare (5)

#### HUMANITIES (10 CREDITS)

- » CMST 320 ..... Professional and Organizational Communication (5)
- » PHIL 320 ..... Ethical Decision Making (5)

## BACHELOR OF APPLIED SCIENCE IN Community Health

### SOCIAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » PSYC&100..... General Psychology (5)
- » PSYC&200 ..... Lifespan Psychology (5)
- » PSYC 360 ..... Health Psychology (5)
- » SOC&101 ..... Introduction to Sociology (5)
- » SOC&201 ..... Social Problems (5)

### NATURAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » ANTH&205..... Biological Anthropology (5)
- » BIOL&160 ..... General Cell Biology (5)
- » BIOL&241 ..... Human Anatomy and Physiology I (5)
- » BIOL&242 ..... Human Anatomy and Physiology II (5)
- » GEOG 205..... Physical Geography (5)
- » NUTR&101 ..... Human Nutrition (5)

### QUANTITATIVE SKILLS (5 CREDITS)

- » Math 136 ..... Inferential Statistics (5)
- or Math&146... Introduction to Statistics (5)

### Core Requirements (50 credits)

- » CHP 300 ..... Introduction to Community Health (5)
- » CHP 305..... Community Health Advocacy (5)
- » CHP 310..... Community Health Communications and Infomatics (5)
- » CHP 315..... Health Policy, Law, and Ethics (5)
- » CHP 320..... Introduction to Epidemiology (5)
- » CHP 325..... Population Health and Wellness (5)
- » CHP 330..... Program Planning and Evaluation (5)
- » CHP 335..... Healthcare Research Methods (5)
- » CHP 420..... Education in Healthcare (5)
- » CHP 490..... Community Health Professional Capstone(5)

### Community Health Professional Electives (15 credits)

15 credits from below:

- » CHP 340 ..... Disaster Preparedness (5)
- » CHP 360..... Global Health (5)
- » CHP 400..... Environmental Health (5)
- » CHP 410..... Trauma as a Community Health Issue (5)
- » CHP 430..... Epidemics and Prevention (5)
- » CHP 440..... Health, Culture and Diversity (5)
- » CHRC 400..... Tobacco and Nicotine Treatment
- » CHRC 410 ..... Leadership for the Health Care Professional (5)

### General College Level Electives (70 credits)

Any college-level course will meet these requirements. Recommend courses in health disciplines.

General Electives should ideally include the following:

- » CU 103 ..... Excel I (3)
- » CU 203..... Excel II (3)
- » HIT 130..... Medical Terminology (3)

### Students Considering Graduate Clinical Degrees

Students pursuing graduate education in a clinical degree should work with a BAS faculty advisor for very specific course requirements. For applying to medical schools (M.D., D.O, D.M.D), one year of biology courses, one year of inorganic chemistry along with physics and pre-calculus should be considered. The following courses should be considered for pre-nurse practitioner, pre-physician assistant, or pre-physical therapy.

### HUMAN ANATOMY & PHSIOLOGY (10 CREDITS)

- » BIOL&241 ..... Human Anatomy and Physiology I (5)
- » BIOL&242 ..... Human Anatomy and Physiology II (5)

### GENERAL BIOLOGY (10 CREDITS)

- » BIOL&160 ..... General Cell Biology (5)
- » BIOL&222..... Introduction to Cellular & Molecular Biology (5)

### MICROBIOLOGY (5 CREDITS)

- » BIOL&260 ..... General Microbiology (5)

### CHEMISTRY (5 CREDITS)

- » CHEM&110 ..... Chemical Concepts (5)
- » CHEM&161..... General Chemistry (5)
- » CHEM&262 .... Organic Chemistry (5)

### STATISTICS (5 CREDITS)

- » MATH 136..... Inferential Statistics (5)
- » MATH&146 ..... Introduction to Statistics (5)

### ENGLISH (10 CREDITS)

- » ENGL&101 ..... English Composition I (5)
- » ENGL&102 ..... English Composition II (5)
- » ENGL 103..... English Composition III (5)
- » ENGL&235..... Technical Writing (5)
- » ENGL 301 ..... Professional Writing and Communication in Healthcare (5)

Other recommended courses include biochemistry, genetics, and social sciences (sociology, psychology, and anthropology).

»

# BACHELOR OF APPLIED SCIENCE IN Community Health Paramedicine

## Pre-admission Requirements

- » Associate degree in Emergency Medical Services (or 90 college level credits) and Paramedic Certification or Associate degree (or 90 college level credits) in another subject with Paramedic Certification.
- » Students may be admitted to the program, but must complete the following lower division courses with an earned grade of C or higher prior to taking 300 level CH courses: ENGL& 101 and MATH 136 or MATH& 146

## General Education Requirements (45 credits)

### COMMUNICATION (10 CREDITS)

- » ENGL&101 ..... English Composition I (5)
- » ENGL 301 ..... Professional Writing and Communication in Healthcare (5)

### HUMANITIES (10 CREDITS)

- » CMST 320 ..... Professional and Organizational Communication (5)
- » PHIL 320 ..... Ethical Decision Making (5)

### SOCIAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » PSYC&100 ..... General Psychology (5)
- » PSYC&200 ..... Lifespan Psychology (5)
- » PSYC 360 ..... Health Psychology (5)
- » SOC&101 ..... Introduction to Sociology (5)
- » SOC&201 ..... Social Problems (5)

### NATURAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » ANTH&205 ..... Biological Anthropology (5)
- » BIOL&160 ..... General Cell Biology (5)
- » BIOL&241 ..... Human Anatomy and Physiology I (5)
- » BIOL&242 ..... Human Anatomy and Physiology II (5)
- » GEOG 205 ..... Physical Geography (5)
- » NUTR&101 ..... Human Nutrition (5)

### QUANTITATIVE SKILLS (5 CREDITS)

- » Math 136 ..... Inferential Statistics (5)  
or Math&146... Introduction to Statistics (5)

## Core Requirements (50 credits)

- » CHP 300 ..... Introduction to Community Health (5)
- » CHP 305 ..... Community Health Advocacy (5)
- » CHP 310 ..... Community Health Communications and Infomatics (5)
- » CHP 315 ..... Health Policy, Law, and Ethics (5)
- » CHP 320 ..... Introduction to Epidemiology (5)
- » CHP 325 ..... Population Health and Wellness (5)
- » CHP 330 ..... Program Planning and Evaluation (5)
- » CHP 335 ..... Healthcare Research Methods (5)
- » CHP 420 ..... Education in Healthcare (5)
- » CHP 490 ..... Community Health Professional Capstone(5)

## Community Health Paramedicine Electives (15 credits)

15 credits from below:

- » CHPM 400 ..... EMS Ethics and Leadership (5)
- » CHPM 410 ..... Emergency Management (5)
- » CHPM 420 ..... Injury Prevention (5)
- » CHPM 430 ..... Community Paramedicine (10)
- » CHPM 440 ..... Community Paramedicine Internship (5)
- » CHPM 450 ..... Critical Care Transport (10)
- » CHPM 460 ..... Critical Care Transport Internship (5)

## BACHELOR OF APPLIED SCIENCE IN Community Health Paramedicine

### General College Level Electives (70 credits)

Any college-level course will meet these requirements. Recommend courses in health disciplines.

General Electives should ideally include the following:

- » CU 103..... Excel I (3)
- » CU 203..... Excel II (3)
- » HIT 130..... Medical Terminology (3)

Students pursuing graduate education in a clinical degree should work with a BAS faculty advisor for very specific course requirements. For applying to medical schools (M.D., D.O, D.M.D), one year of biology courses, one year of inorganic chemistry along with physics and pre-calculus should be considered. The following courses should be considered for pre-nurse practitioner, pre-physician assistant, or pre-physical therapy.

### HUMAN ANATOMY & PHYSIOLOGY (10 CREDITS)

- » BIOL&241..... Human Anatomy and Physiology I (5)
- » BIOL&242..... Human Anatomy and Physiology II (5)

### GENERAL BIOLOGY (10 CREDITS)

- » BIOL&160..... General Cell Biology (5)
- » BIOL&222..... Introduction to Cellular & Molecular Biology (5)

### MICROBIOLOGY (5 CREDITS)

- » BIOL&260..... General Microbiology (5)

### CHEMISTRY (5 CREDITS)

- » CHEM&110..... Chemical Concepts (5)
- » CHEM&161..... General Chemistry (5)
- » CHEM&262..... Organic Chemistry (5)

### STATISTICS (5 CREDITS)

- » MATH 136..... Inferential Statistics (5)
- » MATH&146..... Introduction to Statistics (5)

### ENGLISH (10 CREDITS)

- » ENGL&101..... English Composition I (5)
- » ENGL&102..... English Composition II (5)
- » ENGL 103..... English Composition III (5)
- » ENGL&235..... Technical Writing (5)
- » ENGL 301..... Professional Writing and Communication in Healthcare (5)

Other recommended courses include biochemistry, genetics, and social sciences (sociology, psychology, and anthropology).

# BACHELOR OF APPLIED SCIENCE IN Community Health Respiratory Care

## Pre-admission Requirements

- » Associate degree in Respiratory Care (or 90 college level credits) and RT credential or Associate degree (or 90 college level credits) in another subject with RT credential.
- » Students may be admitted to the program, but must complete the following lower division courses with an earned grade of C or higher prior to taking 300 level CH courses: ENGL& 101 and MATH 136 or MATH& 146.

## General Education Requirements (45 credits)

### COMMUNICATION (10 CREDITS)

- » ENGL&101 ..... English Composition I (5)
- » ENGL 301 ..... Professional Writing and Communication in Healthcare (5)

### HUMANITIES (10 CREDITS)

- » CMST 320 ..... Professional and Organizational Communication (5)
- » PHIL 320 ..... Ethical Decision Making (5)

### SOCIAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » PSYC&100 ..... General Psychology (5)
- » PSYC&200 ..... Lifespan Psychology (5)
- » PSYC 360 ..... Health Psychology (5)
- » SOC&101 ..... Introduction to Sociology (5)
- » SOC&201 ..... Social Problems (5)

### NATURAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » ANTH&205 ..... Biological Anthropology (5)
- » BIOL&160 ..... General Cell Biology (5)
- » BIOL&241 ..... Human Anatomy and Physiology I (5)
- » BIOL&242 ..... Human Anatomy and Physiology II (5)
- » GEOG 205 ..... Physical Geography (5)
- » NUTR&101 ..... Human Nutrition (5)

### QUANTITATIVE SKILLS (5 CREDITS)

- » Math 136 ..... Inferential Statistics (5)  
or Math&146... Introduction to Statistics (5)

## Core Requirements (50 credits)

- » CHP 300 ..... Introduction to Community Health (5)
- » CHP 305 ..... Community Health Advocacy (5)
- » CHP 310 ..... Community Health Communications and Infomatics (5)
- » CHP 315 ..... Health Policy, Law, and Ethics (5)
- » CHP 320 ..... Introduction to Epidemiology (5)
- » CHP 325 ..... Population Health and Wellness (5)
- » CHP 330 ..... Program Planning and Evaluation (5)
- » CHP 335 ..... Healthcare Research Methods (5)
- » CHP 420 ..... Education in Healthcare (5)
- » CHP 490 ..... Community Health Professional Capstone(5)

## Community Health Respiratory Care Electives (15 credits)

15 credits from below:

- » CHRC 400 ..... Tobacco and Nicotine Treatment (5)
- » CHRC 410 ..... Leadership for the Health Care Professional (5)
- » CHRC 430 ..... Advanced Patient Care (5)

## General College Level Electives (70 credits)

Any college-level course will meet these requirements.

Recommend courses in health disciplines. General Electives should ideally include the following:

- » CU 103 ..... Excel I (3)
- » CU 203 ..... Excel II (3)
- » HIT 130 ..... Medical Terminology (3)

Students pursuing graduate education in a clinical degree should work with a BAS faculty advisor for very specific course requirements. For applying to medical schools (M.D., D.O, D.M.D), one year of biology courses, one year of inorganic chemistry along with physics and pre-calculus should be considered. The following courses should be considered for pre-nurse practitioner, pre-physician assistant, or pre-physical therapy.

### HUMAN ANATOMY & PHYSIOLOGY (10 CREDITS)

- » BIOL&241 ..... Human Anatomy and Physiology I (5)
- » BIOL&242 ..... Human Anatomy and Physiology II (5)

### GENERAL BIOLOGY (10 CREDITS)

- » BIOL&160 ..... General Cell Biology (5)
- » BIOL&222 ..... Intro. to Cellular & Molecular Biology (5)

### MICROBIOLOGY (5 CREDITS)

- » BIOL&260 ..... General Microbiology (5)

## BACHELOR OF APPLIED SCIENCE IN Community Health Respiratory Care

### **CHEMISTRY (5 CREDITS)**

- » CHEM&110 ..... Chemical Concepts (5)
- » CHEM&161 ..... General Chemistry (5)
- » CHEM&262 ..... Organic Chemistry (5)

### **STATISTICS (5 CREDITS)**

- » MATH 136 ..... Inferential Statistics (5)
- » MATH&146 ..... Introduction to Statistics (5)

### **ENGLISH (10 CREDITS)**

- » ENGL&101 ..... English Composition I (5)
- » ENGL&102 ..... English Composition II (5)
- » ENGL 103 ..... English Composition III (5)
- » ENGL&235 ..... Technical Writing (5)
- » ENGL 301 ..... Professional Writing and Communication in  
Healthcare (5)

Other recommended courses include biochemistry, genetics, and social sciences (sociology, psychology, and anthropology).

# BACHELOR OF APPLIED SCIENCE IN Community Health Certificates

## Community Paramedicine Certificate

This certificate will prepare current paramedics to work as a community paramedic. A Community Paramedic (CP) is an advanced paramedic that works to increase access to primary and preventative care and decrease use of emergency departments, which in turn decreases healthcare costs. Among other things, CPs may play a key role in providing follow-up services after a hospital discharge to prevent hospital readmission. CPs can provide health assessments, chronic disease monitoring and education, medication management, immunizations and vaccinations, laboratory specimen collection, hospital discharge follow-up care and minor medical procedures.

### PROGRAM CHAIR

Community Health Professional Specialization  
Brinda Sivaramakrishnan  
253-566-3954 / bsivaramakrishnan@tacomacc.edu

Community Health Professional and Respiratory Care  
Specialization  
Brandon Censon  
253-566-5214 / bcenson@tacomacc.edu

### PROGRAM OUTCOMES

Upon successful completion of this program, students will be able to:

- Identify and critique the influences of community health policies and practices on past, present, and future critical health issues of society
- Identify the fundamental principles of community health to individual, community, and population health issues as well as disease incidence and prevalence
- Examine the causes and prevalence of chronic and infectious diseases and describe prevention, maintenance, and treatment strategies
- Describe the role of theory in health promotion, research, and practice to understand and change environmental and behavioral factors
- Identify and critique the impact of health disparities in health behaviors, intervention strategies, community health policies, and access to quality healthcare
- Critique cultural, legal, policy, and ethical factors that influence health status of individuals and populations
- Use appropriate research and statistical tools and techniques to evaluate community health data related to outcomes, prevention, management, and treatment approaches
- Identify culturally sensitive approaches to health communication with individuals, groups, communities, and populations
- Develop and appraise community programs and interventions through assessment, planning, implementation, and evaluation
- Practice team collaboration, leadership, and management skills in a variety of settings
- Use effective written and oral skills to communicate with different populations within a given community
- Create and deliver patient/client/community education
- Demonstrate professional communication, teamwork, ethics, inquiry, and analysis, quantitative literacy, and diversity in pre-hospital practice
- Apply advanced professional medical practices in pre-hospital settings

### Certification Requirements

- » CHPM 430 ..... Community Paramedicine (10)
- » CHPM 440 ..... Community Paramedicine Internship (5)

## BACHELOR OF APPLIED SCIENCE IN Community Health Certificates

### Critical Care Transport Specialist Certificate

This Critical Care Transport certificate is designed to prepare the paramedic for advanced critical care on ground and air transports. This includes providing advanced clinical patient assessments and providing invasive care beyond the standard scope of advanced pre-hospital care. Upon completion of this series, the student may take the Certified Flight Paramedic (FP-C) and/or the Certified Critical Care Paramedic (CCP-C) exams held by the International Board of Specialty Certification (IBSC)

#### PROGRAM CHAIR

Community Health Professional Specialization  
Brinda Sivaramakrishnan  
253-566-3954 / bsivaramakrishnan@tacomacc.edu

Community Health Professional and Respiratory Care Specialization  
Brandon Censon  
253-566-5214 / bcenson@tacomacc.edu

#### PROGRAM OUTCOMES

Upon successful completion of this program, students will be able to:

- Identify and critique the influences of community health policies and practices on past, present, and future critical health issues of society
- Identify the fundamental principles of community health to individual, community, and population health issues as well as disease incidence and prevalence
- Examine the causes and prevalence of chronic and infectious diseases and describe prevention, maintenance, and treatment strategies
- Describe the role of theory in health promotion, research, and practice to understand and change environmental and behavioral factors
- Identify and critique the impact of health disparities in health behaviors, intervention strategies, community health policies, and access to quality healthcare
- Critique cultural, legal, policy, and ethical factors that influence health status of individuals and populations
- Use appropriate research and statistical tools and techniques to evaluate community health data related to outcomes, prevention, management, and treatment approaches
- Identify culturally sensitive approaches to health communication with individuals, groups, communities, and populations
- Develop and appraise community programs and interventions through assessment, planning, implementation, and evaluation
- Practice team collaboration, leadership, and management skills in a variety of settings
- Use effective written and oral skills to communicate with different populations within a given community
- Create and deliver patient/client/community education
- Demonstrate professional communication, teamwork, ethics, inquiry, and analysis, quantitative literacy, and diversity in pre-hospital practice
- Apply advanced professional medical practices in pre-hospital settings

#### Certification Requirements

- » CHPM 450 ..... Critical Care Transport (10)
- » CHPM 460 ..... Critical Care Transport Internship (5)



# BACHELOR OF APPLIED SCIENCE IN Community Health Certificates

## Global Health and Cultural Competency Certificate

The Global Health and Cultural Competency certificate is designed to allow students to explore the impact of culture on healthcare. Field experience will allow students to practice and implement strategies to integrate knowledge into their professional role in the delivery of care.

### PROGRAM CHAIR

Community Health Professional Specialization  
Brinda Sivaramakrishnan  
253-566-3954 / bsivaramakrishnan@tacomacc.edu

### PROGRAM OUTCOMES

Upon successful completion of this program, students will be able to:

- Identify and critique the influences of community health policies and practices on past, present, and future critical health issues of society
- Identify the fundamental principles of community health to individual, community, and population health issues as well as disease incidence and prevalence
- Examine the causes and prevalence of chronic and infectious diseases and describe prevention, maintenance, and treatment strategies
- Describe the role of theory in health promotion, research, and practice to understand and change environmental and behavioral factors
- Identify and critique the impact of health disparities in health behaviors, intervention strategies, community health policies, and access to quality healthcare
- Critique cultural, legal, policy, and ethical factors that influence health status of individuals and populations
- Use appropriate research and statistical tools and techniques to evaluate community health data related to outcomes, prevention, management, and treatment approaches
- Identify culturally sensitive approaches to health communication with individuals, groups, communities, and populations
- Develop and appraise community programs and interventions through assessment, planning, implementation, and evaluation
- Practice team collaboration, leadership, and management skills in a variety of settings
- Use effective written and oral skills to communicate with different populations within a given community
- Create and deliver patient/client/community education

### Certification Requirements

- » CHP 360..... Global Health (5)
- » CHP 440..... Health, Culture, and Diversity (5)

## BACHELOR OF APPLIED SCIENCE IN Community Health Certificates

### Tobacco and Nicotine Treatment Specialist Certificate

This program offers a certification training program for tobacco treatment specialists. The goal of this program is to aid health care professionals in becoming competent in the provision of treatment for individuals dependent on tobacco and to formally recognize this competence. This training program is designed for healthcare professionals with a strong interest in providing tobacco dependence treatment

#### PROGRAM CHAIR

Community Health Respiratory Care Specialization  
Greg Carter  
253-566-5231 / gcarter@tacomacc.edu

#### PROGRAM OUTCOMES

Upon successful completion of this program, students will be able to:

- Identify and critique the influences of community health policies and practices on past, present, and future critical health issues of society
- Identify the fundamental principles of community health to individual, community, and population health issues as well as disease incidence and prevalence
- Examine the causes and prevalence of chronic and infectious diseases and describe prevention, maintenance, and treatment strategies
- Describe the role of theory in health promotion, research, and practice to understand and change environmental and behavioral factors
- Identify and critique the impact of health disparities in health behaviors, intervention strategies, community health policies, and access to quality healthcare
- Critique cultural, legal, policy, and ethical factors that influence health status of individuals and populations
- Use appropriate research and statistical tools and techniques to evaluate community health data related to outcomes, prevention, management, and treatment approaches
- Identify culturally sensitive approaches to health communication with individuals, groups, communities, and populations
- Develop and appraise community programs and interventions through assessment, planning, implementation, and evaluation
- Practice team collaboration, leadership, and management skills in a variety of settings
- Use effective written and oral skills to communicate with different populations within a given community
- Create and deliver patient/client/community education
- Demonstrate professional communication, teamwork, ethics, inquiry, analysis, quantitative literacy, and diversity in pre-hospital practice
- Apply advanced professional medical practices in pre-hospital setting

#### Certification Requirements

- » CHRC 400..... Tobacco and Nicotine Treatment (5)

# BACHELOR OF APPLIED SCIENCE IN IT Networking Information Systems and Technology

The Bachelor of Applied Science in Information Systems and Technology will enable graduates to meet the needs of a broad scope of information technology skills. The ITN-IST BAS at TCC was created as a pathway for students to become well rounded, soft skilled enabled IT professionals. It seeks to develop not only their technical expertise, but also their ability to work as a team and communicate effectively and professionally. With ethics as its corner stone, graduates will be trained and possess industry certifications in topics such as cloud computing, cybersecurity and forensics, networking, and databases. Students from the BAS, will learn how to properly configure and maintain current and emerging technology for a wide range of business and government applications. By providing a broad-based curriculum, TCC prepares graduates for the challenges of the ever-changing job market. This holistic approach ensures graduates have a competitive edge and possess a broadly desired skill set for future employers.

## PROGRAM CHAIR

Sergio Hernandez  
253-460-4362 / shernandez@tacomacc.edu

## PROGRAM OUTCOMES

- Evaluate, implement and demonstrate effective communication across all levels of the organization and to diverse audiences.
- Formulate an understanding of the value of diversity and community as it relates to technology fields with attention to the dynamics of power and privilege.
- Design policies that support data integrity, confidentiality, availability, and security within the organizational structure.
- Improve ethical behaviors, innovation and critical thinking, teamwork, and technical proficiency commensurate with duties of an information technology professional.
- Analyze, evaluate, and implement comprehensive project plans by applying analytical tools, information systems and emerging technologies to improve business processes and eliminate security vulnerabilities.
- Recommend acceptable resolutions to ethical issues and dilemmas to improve desired organizational outcomes.
- Investigate and recommend solutions to security threats.

## Pre-admission Requirements

- » Associate Degree in Networking and Cyber Security OR Associate Degree (or 90 college level credits) in other field AND A+ Certification AND Network + Certification

## Lower Division General Education (35 credits)

### COMMUNICATION (5 CREDITS)

- » ENGL&101 ..... English Composition I (5)

### HUMANITIES (5 CREDITS)

Recommend to choose from the following:

- » PHIL&101 ..... Introduction to Philosophy (5)
- » CMST&101 ..... Introduction to Communication (5)
- » CMST 110..... Multicultural Communication (5)
- » CMST&210 ..... Interpersonal Communication (5)
- » CMST&220 ..... Public Speaking (5)

## SOCIAL SCIENCE: (10 CREDITS)

Recommend to choose from the following:

- » BUS&201 ..... Business Law (5)
- » POLS&202 ..... American Government (5)
- » PSYC&100..... General Psychology (5)
- » SOC&101 ..... Introduction to Sociology (5)
- » SOC&201 ..... Social Problems (5)
- » SOC 262 ..... Race and Ethnic Relations (5)

## NATURAL SCIENCE (10 CREDITS)

Recommend to choose from the following:

- » GEOG 210..... Maps, GIS and the Environment (5)
- » ENVS&101 ..... Introduction to Environmental Science (5)

## QUANTITATIVE SKILLS (5 CREDITS)

- » Math 136 ..... Inferential Statistics (5)  
or Math&146... Introduction to Statistics (5)

## Upper Division General Education (10 credits)

- » CMST 320..... Professional and Organizational Communication (5)
- » PHIL 320 ..... Ethical Decision Making (5)

## Core Requirements (55 credits)

- » LS 301 ..... Research Skills for BAS (2)
- » IT 301 ..... Scripting and Programming for Network Administration (5)
- » IT 301 ..... Emerging Communication Technology (3)
- » IT 305 ..... Remote and Virtualized Platforms (5)
- » IT 321 ..... Advanced Information and Data Security (5)
- » IT 361 ..... Cloud Computing (5)
- » IT 418 ..... Advanced Technology Integration (5)
- » IT 421 ..... Cyber Operations (5)
- » IT 441 ..... Data Science and Big Data Analytics (5)
- » IT 461 ..... Advanced Routing and Switching (5)
- » IT 481 ..... Information Systems Capstone (5)

## General College Level Electives (80 credits)

Any college level course will meet requirements. Recommend courses in the following disciplines: IT, Business, Technical Writing, Ethics/Human Relations, Leadership/Management.

# TCC Career Training

Tacoma Community College offers several career training programs to prepare students to enter the workforce. Career training programs at TCC lead to a two-year Associate in Applied Sciences (AAS) degree or shorter-term program certificates. Many of the programs and courses are available to help students prepare for career advancement, update their skills, or retrain for new careers.

Associate in Applied Sciences-Transfer (AAS-T) degrees are two-year, career training degrees. They prepare students for immediate employment. These degrees transfer only to:

- Applied baccalaureate degrees at community or technical colleges.
- Universities that have an agreement with the community or technical college issuing the degree.

Some of the programs have application and admission requirements in addition to those required for admission to Tacoma Community College. For more information, interested students should review the program specific web pages on the TCC website: [tacomacc.edu/help/ineedskillstofindaprofessionalcareer](https://tacomacc.edu/help/ineedskillstofindaprofessionalcareer). TCC provides career training and retraining in the following areas:

- Accounting careers
- Business careers
- Early Childhood Education careers
- Health careers
- Human Services careers
- Integrated Basic Education and Skills Training (I-BEST) careers
- Paralegal careers
- Information Technology careers

## Certificates

Certificates of completion are granted to students who meet the requirements for programs of less than 90 credits.

To receive certificates, students must submit Tacoma Community College's Application for Vocational Certificate (no fee required).

Certificates of 45 or more credits include a minimum of three related instruction areas: communication, quantitative skills, and human relations.

# Career Training Programs

CAREER TRAINING PROGRAMS	CERTIFICATE	AAS DEGREE
<b>Business</b>		
Accounting		✘
Accounting Office Associate	✘	
Assistant Bookkeeping Clerk	✘	
Bookkeeping Systems	✘	
Computerized Accounting	✘	
Tax Preparation	✘	
Business		✘
Customer Service	✘	
Entrepreneurship	✘	
Global Transportation and Secure Logistics	✘	
Human Resource Specialist	✘	
Management	✘	
Marketing	✘	
<b>Early Childhood Education</b>		
Early Childhood Education: Emphasis on Children with Exceptionalities Degree		✘
Early Childhood Education: Short Certificate of Specialization	✘	
Early Childhood Education: Emphasis on Children with Exceptionalities Certificate	✘	
Early Childhood Education: Initial Certificate	✘	
<b>Health</b>		
Allied Health (Transfer)		<b>AAS-T</b>
Diagnostic Medical Sonography		✘
Emergency Medical & Health Services		✘
Emergency Medical Technician- Basic	✘	
Paramedic	✘	

CAREER TRAINING PROGRAMS	CERTIFICATE	AAS DEGREE
<b>Health (cont.)</b>		
Health Information Technology		✘
Medical Billing Specialist	✘	
Medical Scribe	✘	
Nursing, RN Option (Transfer)		<b>DTA-MRP</b>
Certified Nursing Assistant	✘	
Radiologic Science		✘
Respiratory Therapy		✘
<b>Human Services</b>		
Human Services		✘
Human Services Case Aide	✘	
Chemical Dependency	✘	
<b>I-BEST (Integrated Basic Education Skills Training)</b>		
Certified Nursing Assistant	✘	
Emergency Medical Technician	✘	
Help Desk	✘	
Medical Scribe	✘	
<b>Paralegal</b>		
Paralegal		✘
Paralegal Pref. Pro-Certificate	✘	
<b>Technology</b>		
Networking and Cyber Security		✘
Application Support Specialist	✘	
Cyber Security	✘	
Database Management	✘	
e-HIM	✘	
Help Desk	✘	
Network Support	✘	
Technical Support	✘	
<b>Washington Corrections Center for Women (WCCW)</b>		
Web Development	✘	
Horticulture, Floriculture & Organic Farming	✘	

## Associate in Applied Sciences Degree

The Associate in Applied Sciences (AAS) degree is designed for students who complete an approved course of studies in professional, occupational, or technical areas. Refer to the career training program list for TCC programs leading to AAS degrees. Upon completion of an AAS degree, students may continue their education and work toward a Bachelor of Applied Science (BAS) degree in a variety of majors at a number of Washington State Community and Technical Colleges. In some cases articulation agreements with specific universities may enable transfer. Students who plan to continue on to a bachelor degree should meet with the program chair to plan their course selection sequence.

### DEGREE REQUIREMENTS (GENERAL)

- A cumulative college-level grade point average of 2.00 in course work completed at Tacoma Community College.
- At least 30 applicable credits must be earned at Tacoma Community College.
- Ninety (90) quarter hours in courses numbered 100 or above, including program and related instruction requirements.

TCC faculty, along with a program advisory committee composed of business and community members determine the curriculum for each career training program. Requirements for each program include major program requirements, related instruction requirements, and elective courses. See individual programs for specific degree requirements.

## Accounting

### PROGRAM CHAIR

Annalee Rothenberg  
253-566-5181 / arothenberg@tacomacc.edu

TCC's Accounting program prepares students for employment in a wide variety of accounting environments. The program's structure is progressive, leading to four levels of achievement associated with increasing levels of job responsibility. The certificates can be taken as stand-alone options or applied to the Associate in Applied Sciences degree. TCC also offers specialized accounting certificates in Computerized Accounting and Tax Preparation.

Upon completion of this AAS degree program, students may continue their education and work towards a Bachelor of Applied Science (BAS) degree in Applied Management at Tacoma Community College or another business-related field at a number of Washington State Community and Technical colleges. Those students intending to transfer to a four-year university to pursue a bachelor's degree may be required to take additional courses depending on the requirements of the particular program or degree. Students who plan to transfer should meet with the program chair to plan their course selection and sequence.

For more information, visit the website at [tacomacc.edu/academics-programs/programs/accounting](http://tacomacc.edu/academics-programs/programs/accounting)

### PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS Accounting degree, students will:

- Generate accurate financial statements for a company and communicate a company's financial position.
- Simulate an accounting department (group process) to prepare accounting documents using software to record business transactions for an entity or tax agency, and integrate current regulations.
- Demonstrate analysis of existing documentation to verify the accuracy of information for an entity and perform necessary reconciliations.

### REQUIRED FOR THIS PROGRAM

- Assessment above or completion of ENGL/ 095 and MATH 085.
- Knowledge of CU 091, CU 100 and HD 101.

# Accounting

## Accounting Office Associate Certificate

(15 credits)

Prepares students for entry-level general accounting employment in office support positions. Take PSYCH 100 for transfer-level Leadership and Human Relations.

- » ACCT 101 ..... Practical Accounting I (5)
- » CU 105..... Word I, Excel I (5)
- » BUS 164..... Leadership and Human Relations (5)

## Assistant Bookkeeping Clerk Certificate

(15 additional credits = total 30 credits)

Prepares students for entry-level positions as assistant clerks in accounts payable or accounts receivable. *To complete the Assistant Bookkeeping Clerk certificate, you must first complete the Accounting Office Associate certificate.* Take MATH& 147 for transfer-level math.

- » ACCT& 201 ..... Principles of Accounting I (5)
- » BUS 110 ..... Business Math (5)
- » ENGL& 101 ..... English Composition (5)

## Bookkeeping Systems Certificate

(15 additional credits = total 45 credits)

Prepares students for entry-level positions as accounts payable clerks, accounts receivable clerks, and payroll assistants. *To complete the Bookkeeping Systems certificate, you must first complete the Assistant Bookkeeping Clerk certificate.*

NOTE: ACCT 145 may be used for the CPA exam's fifth year requirement.

- » ACCT 145..... Payroll and Business Taxes (5)
- » BUS 280 ..... Career Readiness (2)
- » CMST& 101 ..... Introduction to Communication (5)
- » CU 203..... Excel II (3)

## Associate in Applied Sciences Degree

(45 additional credits = total 90 credits)

Prepares students for entry-level accounting positions that work with integrated computerized accounting systems. *To complete the Accounting APS degree program students must first complete the Bookkeeping Systems certificate.* NOTE: ACCT 165 and ACCT 175 may be used for the CPA exam's fifth year requirement.

### CORE REQUIREMENTS

- » ACCT 165..... Accounting with Sage (5)
- » ACCT 175..... Accounting with QuickBooks (5)
- » ACCT& 202..... Principles of Accounting II (5)
- » ACCT 250..... Federal Income Tax (5)
- » ACCT 290..... Work Internship (5)
- » BUS& 201 ..... Business Law (5)

### ELECTIVES

(15 credits)

- » ACCT, BUS, CU, ECON, ENGL, HD, HIM 130, HIM 195, IT 246 or 274, LOG, MATH, MO 101 or 110

## Specialized Accounting Certificates

Designed for individuals currently in the workforce and returning to school to enhance or update skills in the accounting industry. The certificate curriculum can be applied to the AAS degree in Accounting. NOTE: ACCT 145, 165, and 175 may be used for the CPA exam's fifth year requirement.

### Computerized Accounting Certificate

(13 credits)

Knowledge and skills about application software commonly used in the accounting industry.

- » ACCT 165..... Accounting with Sage (5)
- » ACCT 175..... Accounting with QuickBooks (5)
- » CU 203..... Excel II (3)

### Tax Preparation Certificate

(15 credits)

Knowledge and skills about income, payroll and business taxes. The certificate also covers preparation of payroll checks and related documents.

- » ACCT 145..... Payroll and Business Taxes (5)
- » ACCT 250..... Federal Income Tax (5)
- » ACCT 290..... Work Internship (5)

# Allied Health

## PROGRAM CHAIR

Brandon Censon

253-566-5214 / bcenson@tacomacc.edu

The Associate in Applied Sciences-Transfer (AAS-T) degree in Allied Health prepares students for various healthcare related training programs with strong knowledge and skills in college-level academics such as math, English, natural sciences, humanities, and social science. This degree is designed to provide formal educational opportunity to students with professional certificates in allied health areas or to provide skills to students who have general education credits but no professional training.

## Associate in Applied Sciences-Transfer Degree

(90 credits) Completion of one professional certificate in an allied health discipline OR complete 10-credits of applied science coursework (5-48 credits)

- » Medical Scribe ..... 19
- » Medical Billing Specialist ..... 46-48
- » Emergency Medical Technician..... 12
- » Chemical Dependency Professional..... 45
- » Human Services Case Aid ..... 15
- » Certified Nursing Assistant ..... 5

## Academic Core Requirements (35)

### COMMUNICATION (10 CREDITS)

- » ENGL& 101 ..... English Composition I (5)

Select additional 5 credits. Recommended options below.

- » ENGL& 102 ..... English Composition II (5)
- » ENGL 103 ..... Composition III: Writing about Literature (5)
- » ENGL& 235 ..... Technical Writing (5)
- » CMST& 101 ..... Introduction to Communications (5)
- » CMST 110 ..... Multicultural Communications (5)
- » CMST& 210 ..... Interpersonal Communication (5)
- » CMST& 220 ..... Public Speaking (5)

### QUANTITATIVE SKILLS (5 CREDITS)

Select 5 credits. Recommended options below.

- » MATH& 107 ..... Math in Society (5)
- » MATH 136 ..... Inferential Statistics (5)
- » MATH& 141 ..... Precalculus I (5)
- » MATH& 146 ..... Introduction to Statistics (5)

### NATURAL SCIENCE (10 CREDITS)

Select 10 credits. Recommended options below. Must include 5 credits with lab. Must include 5 credits of human anatomy.

- » BIOL& 160 ..... General Cell Biology (5)
- » BIOL& 175 ..... Human Biology with Lab (5)
- » BIOL& 241 ..... Human Anatomy and Physiology I (5)
- » BIOL& 242 ..... Human Anatomy and Physiology II (5)

- » BIOL& 260 ..... General Microbiology (5)
- » CHEM& 110 ..... Chemical Concepts w/lab (5)
- » CHEM& 121 ..... Introduction to Inorganic Chemistry (5)
- » CHEM& 131 ..... Introduction to Organic/Biochemistry (5)
- » NUTR& 101 ..... Human Nutrition (5)
- » PHYS& 114 ..... General Physics I (6)
- » PHYS& 115 ..... General Physics II (6)
- » PHYS& 116 ..... General Physics III (6)

### HUMANITIES (5 CREDITS)

Select 5 credits. Recommended options below.

- » CMST& 101 ..... Introduction to Communications (5)
- » CMST 110 ..... Multicultural Communications (5)
- » CMST& 210 ..... Interpersonal Communication (5)
- » CMST& 220 ..... Public Speaking (5)
- » PHIL& 101 ..... Introduction to Philosophy (5)

### SOCIAL SCIENCE (5 CREDITS)

Select 5 credits. Recommended options below.

- » ANTH& 206 ..... Cultural Anthropology (5)
- » ANTH& 205 ..... Biological Anthropology (5)
- » ANTH& 237 ..... Human Osteology (5)
- » PSYC& 100 ..... General Psychology (5)
- » PSYC& 180 ..... Human Sexuality (5)
- » PSYC& 200 ..... Lifespan Psychology (5)
- » PSYC& 220 ..... Abnormal Psychology (5)
- » SOC& 101 ..... Introduction to Sociology (5)

## Required Non-Distribution Courses (8-10)

### COMPUTER USER (5 CREDITS)

Select 5 credits. Recommended options below.

- » CU 102 ..... Word I (2)
- » CU 103 ..... Excel I (3)
- » CU 104 ..... PowerPoint I (1)
- » CU 105 ..... Word I and Excel I (5)
- » CU 108 ..... Outlook (2)
- » CU 110 ..... Access I (2)
- » CU 202 ..... Word II (3)
- » CU 203 ..... Excel II (3)
- » CU 210 ..... Access II (3)

### MEDICAL TERMINOLOGY (3-5 CREDITS)

Recommended options below.

- » HIT 130 ..... Medical Terminology I (3)
- » HIT 105 ..... Comprehensive Medical Terminology (5)

## Electives (up to 45 credits)

### ELECTIVES (TO COMPLETE 90 CREDITS)

Any college level course as defined by Tacoma Community College. Select courses appropriate for intended major and intended baccalaureate institution.



# Business

## PROGRAM CHAIR

Mary Jane Oberhofer  
253-566-5253 / moberhofer@tacomacc.edu

The Business program AAS degree provides a training option in two focused areas: Global Logistics and Entrepreneurship. The program provides essential skills in customer service, marketing, and managing employees. Students will learn how to improve interpersonal communication, become a leader and motivator for employees and peers, solve problems creatively, and make effective decisions. This training may be used to develop knowledge and skills that will help students be competitive for a new job, or for job retention and advancement in a current position.

TCC's Business program leads to an Associate in Applied Sciences degree. The program's structure is progressive, leading to four certificates for increasing levels of job responsibility. Three specialized certificates are also available.

Upon completion of this AAS degree program, students may continue their education and work towards a Bachelor of Applied Science (BAS) degree in Applied Management at Tacoma Community College or another business-related field at a number of Washington State Community and Technical colleges. Students intending to transfer to a four-year university to pursue a bachelor's degree may be required to take additional courses depending on the requirements of the particular program or degree. Students who plan to transfer should meet with the program chair to plan their course selection and sequence.

Upon successful completion of the Associate of Applied Sciences in Business, students will:

- Be competitive for a wide variety of entry-level jobs in Transportation, Warehousing, and Importing/Exporting (Global Logistics Concentration).
- Be able to start and market their own business (Entrepreneurship Concentration).
- Communicate effectively about business management issues.
- Demonstrate competence with a wide variety of electronic tools to research, manage and present information in writing.
- Provide outstanding customer service.

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS degree in Business, students will:

- Be able to identify, select, communicate, and implement sound and appropriate business management or logistic concepts, strategies, and best practices in the pursuit of effective and efficient business operations.
- Demonstrate an ability to critically evaluate, problem solve, make and communicate effective decisions about business or logistic situations.
- Display effective interpersonal communication, leadership, motivation, and team dynamics skills in their interactions with others.
- Communicate effectively about business management or logistic issues, including the demonstration of competence with a wide variety of electronic tools to research, analyze, manage, and present information orally and in writing.
- Consistently apply, role model, and communicate high standards of ethical judgment and behavior in the conduct of personal and business affairs.

## PREREQUISITE COURSEWORK FOR ENTRY

- Assessment above or completion of ENGL/ 095 and MATH 085

## Customer Service Certificate

(12 Credits)

Prepares students to deliver consistently superior customer service, both internally and externally.

- » BUS 102.....Customer Service (2)
- » BUS 164..... Leadership and Human Relations (5)
- » CU 105..... Word I, Excel I (5)

## Marketing Certificate

(23 additional credits = total 35 credits)

Prepares students for entry-level opportunities with organizations that provide products or with direct marketing agencies. Students must first complete the Customer Service certificate to receive the Marketing certificate.

- » BUS& 101 ..... Introduction to Business (5)
- » BUS 110 ..... Business Math\* (5)
- » BUS 140..... Marketing and Business Development (5)
- » BUS 257 ..... Social Media for Business (3)
- » ENGL& 101 ..... English Composition I (5)

*\*May substitute MATH 136 or MATH 147 for BUS 110 for bachelor-bound students.*

## Business

### Management Certificate

(18 additional credits = total 53 credits)

Prepares students to manage a variety of settings as a first-line supervisor. Students must first complete the Marketing certificate to receive the Management certificate.

- » BUS 163..... Management Principles & Org. Systems (5)
- » BUS 165..... Human Resource Management (3)
- » BUS 232 ..... Project Management (5)
- » CMST& 101 ..... Introduction to Communication (5)
- » or CMST 110 ..... Multicultural Communication (5)

### Associate in Applied Sciences Degree

(20 credits and an area of concentration = TOTAL 93-94 credits)

Students must complete the Customer Service, Marketing, and Management certificates and the following courses plus one of the concentrations described below to receive an AAS degree.

- » ACCT 101 ..... Practical Accounting (5)
- » BUS& 201 ..... Business Law (5)
- » BUS 150..... Global Business (5)
- » BUS 280 ..... Career Readiness (2)
- » LOG 112..... Importing and Exporting (3)

*\*Substitute ACCT& 201 for ACCT 101 if transfer-level accounting is needed*

#### AREAS OF CONCENTRATION

#### Entrepreneurship and Small Business Management

(20 credits) = TOTAL: 93 credits

Prepares students to start new businesses or better understand small to mid-size business opportunities.

- » BUS 160..... Small Business Entrepreneurship (5)
- » BUS 260 ..... Small Business Operations (5)
- » BUS 290 ..... Internship (5)
- or 5 elective credits from ACCT, BUS, LOG, or IT
- » BUS 295 ..... Entrepreneurial and Innovative Mindset (5)

#### Global Logistics Concentration

(21 credits) = TOTAL: 94 credits

Prepares students to work in the transportation and logistics industry or to gain a big picture perspective on the international aspects of logistics and technology needed to make the transportation of goods more efficient.

- » LOG 102 ..... Transportation and Distribution (5)
- » LOG 104 ..... Warehousing and Inventory Management (5)
- » LOG 110..... International Logistics (3)
- » LOG 115..... Logistics Security and Risk Management (3)
- » BUS 290 ..... Work Internship (5)

### Specialized Business Certificates

The following specialized business certificates can be taken as stand-alone certificates or may be applied to satisfy requirements for the Associate in Applied Sciences degree in Business.

#### Entrepreneurship Certificate

(26 credits)

This certificate is designed to provide students with an entrepreneurial mindset and the business skills to create a sustainable venture.

- » ACCT 101 ..... Practical Accounting I (5)  
or ACCT& 201 .... Principles of Accounting I (5)
- » BUS 140..... Marketing and Business Development (5)
- » BUS 160..... Small Business Entrepreneurship (5)
- » BUS 295 ..... Entrepreneurial & Innovative Mindset (5)
- » BUS 257 ..... Social Media for Business (3)
- » LOG 112..... Importing and Exporting (3)

#### Global Transportation & Secure Logistics Certificate

(24 credits)

Provides a big-picture perspective on the transportation and logistics industry and the international aspects of logistics and technology needed to make the transportation of goods more efficient.

- » LOG 102 ..... Transportation and Distribution (5)
- » LOG 104 ..... Warehousing and Inventory Management (5)
- » LOG 110..... International Logistics (3)
- » LOG 112..... Importing and Exporting (3)
- » LOG 115..... Logistics Security and Risk Management (3)
- » BUS 150..... Global Business (5)

#### Human Resource Specialist Certificate

(20 credits)

Prepares students for careers in human resources.

This certificate is for individuals who currently in the workforce who are returning to school to enhance their skills.

- » ACCT 145..... Payroll and Business Taxes (5)
- » BUS 102..... Customer Service (2)
- » BUS 163..... Management Principles and Organizational Systems (5)
- » BUS 164..... Leadership and Human Relations (5)
- » BUS 165..... Human Resource Management (3)

## Business

### **WAFC Retail Management Certificate**

(48 credits)

The WAFC Retail Management certificate program is a 10-course college-level program that has been fully endorsed by the Washington Association of Food Chains and its member companies. The certificate's curriculum was developed out of a collaborative effort between several food industry and college professionals and encompasses several business essentials, including the "soft skills" of management and communication required for career success in the retail food industry.

- » ACCT 101 ..... Practical Accounting I (5)  
or ACCT& 201 .... Principles of Accounting I (5)
- » BUS 110 ..... Business Math (5)  
or MATH 147 ..... College Algebra for Business & Economics (5)
- » BUS 140 ..... Marketing & Business Development (5)
- » BUS 163 ..... Management Principles & Org. Systems (5)
- » BUS 164 ..... Leadership and Human Relations (5)
- » BUS 165 ..... Human Resource Management (3)
- » CMST& 101 ..... Introduction to Communication (5)
- » CU 105 ..... Word I, Excel I (5)
- » ENGL& 101 ..... English Composition I (5)

### **Invista Performance Solutions**

The Business program partners with Invista Performance Solutions to offer the following credit certificate programs to corporations and other organizations. For information about these certificates, call 253.583.8860 or visit [www.invistaperforms.org](http://www.invistaperforms.org).

### **Supervision and Management Certificate**

(17 credits)

Prepares students to guide others in a work, professional or personal context.

- » SMG 101 ..... Supervisor Survival Skills (5)
- » SMG 120 ..... Supervising the Problem Employee (3)
- » SMG 201 ..... Management Communications (3)
- » SMG 261 ..... Dynamics of Leadership (3)
- » SMG 264 ..... Motivation and Productivity (3)

### **Tribal Enterprise and Gaming Management Certificate Concentration**

(14 credits)

Prepares students for entry-level management positions with tribal enterprises and casino operations.

- » TEGM 110 ..... Casino and Enterprise Finance Essentials (2)
- » TEGM 163 ..... Supervisory Essentials & Front Line Leadership (2)
- » TEGM 165 ..... Casino HR & Personnel Management (2)
- » TEGM 200 ..... Casino Regulations Compliance & Games Protection (2)
- » TEGM 240 ..... Casino Hospitality & Guest Service (2)
- » TEGM 292 ..... Enterprise Operations (2)
- » TEGM 293 ..... Casino Game Management (2)

# Diagnostic Medical Sonography

## PROGRAM CHAIR

Shea Bower

253-460-4476 / sbower@tacomacc.edu

TCC's Diagnostic Medical Sonography program prepares students for employment as a Sonographer working in ultrasound imaging. It is a full-time, 21-calendar-month program leading to an Associate in Applied Sciences (AAS) degree. Students complete classroom and laboratory work at TCC and clinical education in an affiliated ultrasound department. Positions often are available in hospital ultrasound departments, clinics and private physicians' offices.

Students acquire skills in reviewing and recording pertinent clinical patient history, performing the sonographic examinations, providing patient comfort and needs during the examination, and recording anatomic, pathologic, and physiologic data for interpretation by supervising physicians. Traits needed by individuals who enter this program include attention to detail, efficiency, excellent hand/eye coordination, and compassion.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on recommendation by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). The program at Tacoma Community College is accredited in the general concentration.

- CAAHEP  
9355 113th St. N, #7709  
Seminole, FL 33775  
727-210-2350, fax 727-210-2354  
[www.caahep.org](http://www.caahep.org)
- JRC-DMS  
6021 University Blvd., Suite 500  
Ellicott City, MD 21043  
443-973-3251  
[www.jrcdms.org](http://www.jrcdms.org)

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS degree in Diagnostic Medical Sonography along with any required work experience, graduates are eligible to take the certifying examinations of the American Registry of Diagnostic Medical Sonographers in the specialty areas of ultrasound physics and instrumentation, abdomen, and obstetrics-gynecology. Students will:

- Demonstrate the required technical and critical thinking skills to perform as ARDMS-certified entry-level sonographers, providing accurate and efficient general diagnostic sonographic examinations and procedures.
- Obtain, review and integrate pertinent patient history and supporting clinical information/data to optimize diagnostic results.
- Record sonographic diagnostic, pathologic and/or physiologic information for interpretation by a physician.
- Interact effectively, professionally, and ethically in oral and written communications with patients, their families, physicians and other health care professionals, adhering to the recognized SDMS scope of practice.
- Provide basic patient care and comfort, anticipating and responding to patient needs.

# Diagnostic Medical Sonography

## ADMISSION REQUIREMENTS:

### PREREQUISITE COURSEWORK FOR ENTRY (34 credits)

All prerequisite courses must be completed with a grade of C or higher. It is strongly recommended that Math and Science courses are taken within 5-7 years prior to program admission.

- » ENGL& 101 ..... English Composition I (5)  
or ENGL& 102 ... Composition II: Argument and Persuasion (5)  
or ENGL 103 ..... Composition III: Writing about Literature (5)
- » CMST& 101 ..... Introduction to Communication (5)  
or CMST 110 ..... Multicultural Communication (5)  
or CMST& 210 ... Interpersonal Communication (5)  
or CMST& 220... Public Speaking (5)
- » HIT 130 ..... Medical Terminology I (3)  
or higher level equivalent Medical Terminology course)
- » MATH& 141 ..... Pre-Calculus I (5)
- » BIOL& 241 ..... Human Anatomy and Physiology 1 (5)
- » BIOL& 242 ..... Human Anatomy and Physiology 2 (5)
- » PHYS& 115 ..... General Physics II (6)  
or PHYS& 116 .... General Physics III (6)

### NON-ACADEMIC PROGRAM ENTRY REQUIREMENTS

Contact the DMS program for information about:

- » Criminal and federal fraud background checks
- » Health insurance
- » Immunizations

Students are responsible for arranging dependable transportation to and from clinical sites and dependable child/dependent care. Admission to the Diagnostic Medical Sonography program is competitive. There are usually more applicants to the program than available positions. Completing prerequisite courses and satisfying other requirements for a complete application, does not guarantee program admission.

## Associate in Applied Sciences Degree

(109-119 credits)

### Fall Quarter (18 credits)

- » DMS 101 ..... Sonography Lab I (2)
- » DMS 105 ..... Ultrasound Cross-Sectional Anatomy (5)
- » DMS 110 ..... Pathophysiology I (3)
- » DMS 120 ..... Abdominal Sonography (3)
- » DMS 130 ..... Physics and Instrumentation I (3)
- » DMS 175 ..... Orientation to DMS (Early Start) (2)

### Winter Quarter (15 credits)

- » DMS 102 ..... Sonography Lab II (3)
- » DMS 111 ..... Pathophysiology II (3)
- » DMS 121 ..... Small Parts and Superficial Structures  
Sonography (3)
- » DMS 122 ..... Gynecological Sonography (3)
- » DMS 131 ..... Ultrasound Physics and Instrumentation II (3)

### Spring Quarter (13 credits)

- » DMS 103 ..... Sonography Lab III (2)
- » DMS 123 ..... Obstetrical Scanning and Pathophysiology (5)
- » DMS 125 ..... Advanced Sonography (2)
- » DMS 140 ..... Patient Care and Scope of Practice (2)
- » DMS 150 ..... Introduction to Clinicals (2)

### Summer Quarter (15 credits)

- » DMS 151 ..... Ultrasound Clinical I (13)
- » DMS 160 ..... Clinical Seminar I (2)

### Fall Quarter (18-28 credits)

- » DMS 250 ..... Ultrasound Clinical II (13)
- » DMS 260 ..... Ultrasound Seminar and Critique II (2)
- » DMS 299 ..... Independent Study (3-13)

### Winter Quarter (15 credits)

- » DMS 251 ..... Ultrasound Clinical III (13)
- » DMS 261 ..... Ultrasound Seminar and Critique III (2)

### Spring Quarter (15 credits)

- » DMS 252 ..... Ultrasound Clinical IV (13)
- » DMS 270 ..... Sonography Registry Review (2)

# Early Childhood Education: Emphasis on Children with Exceptionalities

## PROGRAM CHAIR

Jennifer Karshna

253-566-5010 / jkarshna@tacomacc.edu

TCC's Early Childhood Education: Emphasis on Children with Exceptionalities program is structured as progressive leading to multiple levels of achievement with three certificates and an Associate in Applied Sciences (AAS) degree, for increasing levels of job responsibility.

This program is designed to develop skills needed to be a successful early childhood professional and is directed toward students planning to work with young children, birth through eight years of age, including those who are culturally, linguistically, and ability diverse.

Employment opportunities are in a variety of settings including preschools, childcare centers, family childcare, HeadStart/ECEAP programs, kindergarten through third grade classrooms (as a teacher assistant), and/or other early learning programs.

NOTE: The practicum and field experience require a criminal background check prior to enrollment in these courses.

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the ECE certificate or AAS degree, students will:

- Use their understanding of young children's characteristics and needs, and of multiple interacting influences on children's development and learning, to create environments that are healthy, respectful, supportive, and challenging for each child.
- Create respectful, reciprocal relationships that support and empower families, and to involve all families in their child's development and learning.
- Use systematic observations, documentation, and other effective assessment strategies in a responsible way, in partnership with families and other professionals, to positively influence the development of every child.
- Implement a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning.
- Use their own knowledge and other resources to design, implement, and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every child.
- Use ethical guidelines and other professional standards related to early childhood practice; demonstrate knowledgeable, reflective and critical perspectives on their work and are informed advocates for sound practices and policies.

## ECE Initial Certificate

(12 credits)

The Early Childhood Education Initial Certificate is the first certificate in the series of ECE stackable certificates. This certificate is a pathway to the Early Childhood Education Short Certificate of Specialization, the Early Childhood Education Emphasis on Children with Exceptionalities Certificate, and the Early Childhood Education Emphasis on Children with Exceptionalities AAS Degree. The certificate is directed toward students working or planning to work with children birth through eight years old. The Early Childhood Education Initial Certificate is aligned with the Washington State ECE common courses and stackable certificates.

*Note: A grade of C or higher is required in all coursework.*

- » ECED& 105..... Intro. to Early Childhood Education (5)
- » ECED& 107..... Health/Safety/Nutrition (5)
- » ECED& 120..... Practicum: Nurturing Relationships (2)

## ECE Short Certificate of Specialization

(8 additional credits = 20 total credits)

The Early Childhood Education Short Certification of Specialization is the second certificate in the series of ECE stackable certificates. This certificate builds on the ECE Initial Certificate and is a pathway to the Early Childhood Education Emphasis on Children with Exceptionalities Certificate and the Early Childhood Education Emphasis on Children with Exceptionalities AAS Degree. The certificate is directed toward students working or planning to work with children birth through eight years old. The Early Childhood Education Short Certificate of Specialization is aligned with the Washington State ECE common courses and stackable certificates.

*Note: A grade of C or higher is required in all coursework.*

- » ECE Initial Certificate (12)
- » EDUC& 115..... Child Development (5)
- » ECED& 132..... Infant/Toddler Care (3)  
or ECED& 139 ... Administration of ECE (3)  
or EDUC& 130... Guiding Behavior (3)

# Early Childhood Education: Emphasis on Children with Exceptionalities

## Early Childhood Education: Emphasis on Children with Exceptionalities Certificate

(35 additional credits = 55 total credits)

TCC's Early Childhood Education: Emphasis on Children with Exceptionalities certificate is the third in the series of ECE stackable certificates. This certificate builds on the ECE Initial Certificate and the Early Childhood Education Short Certificate of Specialization and is a pathway to the Early Childhood Education Emphasis on Children with Exceptionalities AAS Degree. It is an academic program designed to develop the skills needed to be a successful early childhood professional and is directed toward students planning to work with children, birth through eight years old, including those who are culturally, linguistically, and ability diverse. Employment opportunities are in a variety of settings, including: preschools, childcare centers, family early intervention programs (as a teacher assistant), and/or other early learning programs. The Early Childhood Education Emphasis on Children with Exceptionalities certificate is aligned with the Washington State ECE common courses and stackable certificates.

*Note: A grade of C or higher is required in all coursework.*

- » ECE Initial Certificate and ECE Short Certificate of Specialization (20)
- » ECED& 160..... Curriculum Development (5)
- » ECED& 170..... Learning Environments (3)  
or EDUC& 130... Guiding Behavior (3)
- » ECED& 180..... Language and Literacy (3)
- » ECED& 190..... Observation and Assessment (3)
- » ECE 290..... Practicum (3)
- » EDUC& 150 ..... Child, Family, Community (3)
- » EDUC& 204 ..... Exceptional Child (5)
- » ENGL& 101 ..... English Composition I (5)
- » MATH& 107 ..... Math in Society (5)  
or MATH& 131... Math for Elementary Teachers I (5)  
or MATH& 132... Math for Elementary Teachers II (5)

## Associate in Applied Sciences Degree

(47-50 additional credits = total 102-105 credits)

Upon completion of the Early Childhood Education: Emphasis on Children with Exceptionalities certificate, students may enroll in the following courses to obtain the AAS degree in Early Childhood Education: Emphasis on Children with Exceptionalities.

### CORE REQUIREMENTS (22-25 CREDITS)

- » BUS 164..... Leadership and Human Relations (5)  
or ECED& 139 ... Administration of ECE (3)  
Admin. of Early Learning Prog. I, II, III
- » CMST& 101 ..... Introduction to Communication (5)
- » CU 105..... Word I, Excel I (5)  
or CU 100 ..... Intro. to Practical Computing (2)  
and CU 102..... Word I (2)
- » ENGL& 102..... Composition II: Argument and Persuasion (5)
- » ECE 102..... Math, Science, and Technology for Young Children (3)
- » ECE 130..... Cultural Competency & Responsiveness (2)

### HUMANITIES REQUIREMENTS (10 CREDITS)

Choose two from the following courses:

- » ART& 100 ..... Art Appreciation (5)
- » or ART 180 ..... Art for Elementary Education (5)
- » HUM& 101 ..... Introduction to Humanities (5)
- » MUSC& 105 ..... Music Appreciation (5)  
or MUSC 120..... Music in the Classroom (5)

### SOCIAL SCIENCES REQUIREMENTS (10 CREDITS)

Choose two from the following courses:

- » ANTH& 100 ..... Survey of Anthropology (5)
- » HIST& 146 or HIST& 147 or HIST& 148 US History I, II, III
- » SOC& 101 ..... Introduction to Sociology (5)
- » SOC& 201 ..... Social Problems (5)

### NATURAL SCIENCES REQUIREMENTS (5 CREDITS)

Choose one from the following courses:

- » ASTR& 101..... Introduction to Astronomy (5)
- » BIOL& 100..... Survey of Biology (5)
- » BIOL& 175 ..... Biology with Lab (5)
- » BOT 101 ..... General Botany (5)
- » CHEM& 110..... Chemical Concepts with Lab I (5)
- » ENV& 101 ..... Introduction to Environmental Science (5)
- » GEOG 205 ..... Physical Geography (5)
- » GEOG 210..... Maps, GIS, and the Environment (5)
- » GEOL& 101 ..... Introduction to Physical Geology (5)
- » OCEA& 101..... Introduction to Oceanography (5)
- » SCI 105 ..... Introductory Topics in Natural Science (5)
- » SCI 110..... Physical Science and Technology (5)

# Emergency Medical & Health Services

## PROGRAM CHAIR

Josh Wright, BA, PM  
253-566-5220 / jwright@tacomacc.edu

TCC's Emergency Medical & Health Services (EMHS) program prepares students for employment in the emergency medical services field. The program has three levels: the EMT-Basic certificate course, the Paramedic certificate, and the EMHS Associate in Applied Sciences degree.

EMT-Basic provides basic life support and transportation for victims of illness and injury. The EMT-Basic program at TCC follows U.S. Dept. of Transportation guidelines as well as Washington State Dept. of Health standards.

Paramedics are typically employed by fire services, hospitals, and ambulance companies and while in the field serve as the eyes, ears, and hands of an emergency physician. The program is designed to prepare graduates to meet state certification requirements and to take the National Registry EMT-Paramedic examination.

The TCC Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) by recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the Paramedic certificate and Associate of Applied Sciences degree, students will:

- Perform competently as an entry level paramedic meeting National Registry standards as well as safely and effectively manage all situations involving a pre-hospital emergency.
- Demonstrate the ability to recall and apply knowledge of human structure, function, pathophysiology, and psychosocial development to patient care relative to the role of entry level paramedic.
- Demonstrate, through knowledge and behavior, a commitment to the highest standards and competence, ethics, integrity, and accountability to the patient and the paramedic profession.
- Demonstrate effective use of motor, cognitive, and critical thinking skills in diagnosis, management, and prevention of common health problems encountered in patient care necessary to fulfill the role of entry level paramedic.
- Integrate the use of scientific theory, methodology, and critical thinking skills to interpret and apply research to improving patient care in the pre-hospital environment.
- Demonstrate effective listening, verbal, and written communication skills with a wide range of individuals and groups in order to provide patient-centered care.
- Recognize and work effectively within the larger context and system of health care to advocate for and provide quality patient care relative to the role of entry level paramedic.

## NON-ACADEMIC PROGRAM ENTRY REQUIREMENTS

Contact the EMS program for information about:

- » Criminal and federal fraud background checks
- » Health insurance
- » Immunizations
- » Government issued photo identification

Students are responsible for arranging dependable transportation to and from clinical sites and dependable child/dependent care. Admission to the TCC Paramedic program is competitive. There are usually more program applicants than available positions. Completing prerequisite courses and satisfying requirements for a completed application does not guarantee program admission.



# Emergency Medical & Health Services

## Admission Requirements for the EMT-Basic Course

- Accuplacer assessment exam scores showing placement at ENGL/ 085 or equivalent, MATH 085 or higher or successful completion with a C grade or higher in MATH 075.
- High school diploma or GED
- Available with I-BEST support (see page 156)

## Emergency Medical Technician Basic Certificate

(12 credits)

The EMT-Basic program is the entry-level certification course for the Emergency Medical and Health Services field.

- » EMC 110 ..... Emergency Medical Technician Basic (10)
- » EMC 111 ..... Emergency Medical Technician Lab (2)

## Admission Requirements for the Paramedic Program

- EMT-Basic or EMT-Intermediate certification with work or volunteer experience for a minimum of one or more years. Certification requires state licensure and/or national licensure with Registry (NREMT)
- Completion of MATH 085, ENGL/ 095 with a C or better or showing placement in ENGL& 101 and MATH 090
- Completion of BIOL& 175 and HIT 130

## Paramedic Certificate

(69 credits)

### PREREQUISITES (8 CREDITS)

- » BIOL& 175 ..... Human Biology (5)
- » HIT 130 ..... Medical Terminology (3)

### SUMMER QUARTER (10 CREDITS)

- » EMC 116 ..... Introduction to Emergency Medical Care (4)
- » EMC 117 ..... Prehospital Pharmacology (3)
- » EMC 118 ..... Human Body Systems (3)

### FALL QUARTER (17 CREDITS)

- » EMC 230 ..... Medical Emergencies I (6)
- » EMC 130 ..... Paramedic Clinical I (4)
- » EMC 218 ..... Cardiology I (4)
- » EMC 225 ..... Paramedic Skills Lab II (3)

### WINTER QUARTER (19 CREDITS)

- » EMC 231 ..... Medical Emergencies II (3)
- » EMC 131 ..... Paramedic Clinical II (7)
- » EMC 219 ..... Cardiology II (2)
- » EMC 220 ..... Trauma and Special Populations (2)
- » EMC 226 ..... Paramedic Skills Lab II (3)
- » EMC 240 ..... Crisis Resource Management (2)

### SPRING QUARTER (15 CREDITS)

- » EMC 232 ..... Medical Emergencies III (3)
- » EMC 132 ..... Paramedic Clinical III (9)
- » EMC 227 ..... Paramedic Skills Lab III (3)

## Associate in Applied Sciences Degree

(111 credits)

The AAS degree in Emergency Medical & Health Services requires the completion of the Paramedic certificate (69 credits) and an additional 42 credits of required degree courses. With the exception of EMC 200, students may take all of the required degree courses in advance of the Paramedic certificate program.

### REQUIRED DEGREE COURSES (42 ADDITIONAL CREDITS))

- » EMC 200 ..... Contemporary Issues in Pre-Hospital Care (2)
- » PSYC& 100 ..... General Psychology (5)
- » ENGL& 101 ..... English Composition I (5)
- » BUS 110 ..... Business Math (5)  
or MATH& 107... Math in Society (5)
- » BUS 163 ..... Mgmt. Principles & Organizational Systems (5)  
or BUS 164 ..... Leadership and Human Relations (5)
- » PHIL 105 ..... Introduction to Critical Thinking (5)  
or ENGL& 102 ... Composition II: Argument and Persuasion (5)
- » SOC& 101 ..... Introduction to Sociology (5)
- » CMST& 101 ..... Introduction to Communication (5)  
or CMST& 220... Public Speaking (5)

Students must take a minimum of 5 credits from any combination of these courses:

- » CU 102 ..... Word I (2)
- » CU 103 ..... Excel I (3)
- » CU 104 ..... PowerPoint (1)
- » CU 105 ..... Word I & Excel I (5)

# Health Information Technology

## PROGRAM CHAIR

Corinne Jarvis, M.Ed., RHIA, CHDA  
253-566-5077 / cjarvis@tacomacc.edu

The Health Information Technology (HIT) program (109 credits) prepares students for entry-level career opportunities in the field of Health Information Management (HIM) such as medical coding, release of information, or medical records management. The HIT program is offered 100% online and leads to an Associate in Applied Sciences (AAS) degree. Program curriculum includes disciplines of medicine, management, finance, information technology, and healthcare law. Because of this unique mixture, graduates may work in a variety of work settings across an array of healthcare environments.

TCC's HIT AAS degree program is accredited by the Commission on the Accreditation for Health Informatics and Information Management (CAHIIM). Graduates are eligible to sit for the Registered Health Information Technician (RHIT) national credential exam.

The program offers graduates direct articulation into TCC's Bachelor of Applied Science (BAS) in Health Information Management (HIM), which is also accredited by the Commission on the Accreditation for Health Informatics and Information Management (CAHIIM). Graduates of the HIM BAS degree program are eligible to sit for the Registered Health Information Management Administrator (RHIA) credential exam.

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS degree in Health Information Technology students will:

- Identify and apply policies surrounding Information Governance, to include classification systems, health record content and documentation, data governance, data management, and secondary data sources.
- Identify and adhere to systems that ensure the protection of health information, to include health law, data privacy, confidentiality and security, and the release of information.
- Explain data and use technology found in informatics, to include health information technologies, information management strategic planning, analytics and decision support, health care statistics, research methods, consumer informatics, health information exchange, and information integrity and data quality.
- Apply policies and procedures for the use of data required in healthcare reimbursement and evaluate the revenue cycle management process..
- Identify policies and apply procedures for compliance of

healthcare regulatory requirements, to include medical coding, fraud surveillance, and clinical documentation improvement.

- Identify leadership models, theories, and skills required for successful leadership to include the areas of change management, work design and process improvement, human resource management, vendor/contract management, enterprise information management, all of which comply with the ethical standards of practice.
- Identify major concepts in supporting body of knowledge to include pathophysiology and pharmacology, anatomy and physiology, medical terminology, and computer applications.

## PROGRAM REQUIREMENTS

Students are required to have fast internet access with reliable computer hardware and software. It is recommend to use a computer that is less than 5 years old. Students are expected to have moderate to high computer and Microsoft Office proficiency prior to entering the program. Suggested remedial computer training classes are:

- » OLL 101 ..... Online Learning (2)
- » CU 102 ..... Word I (2)
- » CU 103 ..... Excel I (3)
- » CU 104 ..... Powerpoint (1)
- » CU 203 ..... Excel II (3)

## NON-ACADEMIC PROGRAM REQUIREMENTS

Professional Practice Experience internships for the program will require:

- » Criminal and federal fraud background checks
- » Health insurance
- » Immunizations
- » Vehicle insurance (where applicable)
- » 40-80 hours of in-person, on-site internships
- » Drug screening (where applicable)

# Health Information Technology

## Associate in Applied Sciences Degree

### ADMISSION REQUIREMENTS

These courses must be completed before beginning the HIT technical core requirements and must be completed with a grade of "C" or better within two attempts.

- » BIOL& 175 ..... Human Biology w/Lab (5)
- » MATH 093 ..... Descriptive Statistics with Algebra (5)  
and MATH 136... Inferential Statistics (5)  
or MATH& 146 Introduction to Statistics (5)
- » ENGL& 101 ..... English Composition I (5)
- » HIT 105 ..... Comprehensive Medical Terminology (5)

### TECHNICAL CORE REQUIREMENTS

#### 1ST QUARTER (FALL)

- » CU 103 ..... Excel 1 (3)
- » HIT 110 ..... Healthcare Delivery Systems (5)
- » HIT 125 ..... Record Contents and Standards I (5)
- » HIT 179\* ..... Ethical Issues in HIT Seminar (3)

#### 2ND QUARTER (WINTER)

- » HIT 126 ..... Health Information Technologies (5)
- » HIT 141 ..... Outpatient Diagnostic Coding (2)
- » HIT 145 ..... Healthcare Statistics (2)
- » HIT 160 ..... Pathophysiology for HIT (5)
- » HIT 179\* ..... Ethical Issues in HIT Seminar (3)

#### 3RD QUARTER (SPRING)

- » HIT 170 ..... CPT Coding (5)
- » HIT 173 ..... Data Analytics (5)
- » HIT 195 ..... Health Law and Ethics (3)
- » HIT 179\* ..... Ethical Issues in HIT Seminar (3)

### SUMMER ELECTIVE OPTIONS

(Course availability dependent upon enrollment)

- » HIT 176 ..... Advanced Outpatient Coding (5)
- » HIT 186 ..... Outpatient Coding Clinical (2-5)

#### 4TH QUARTER (FALL)

- » HIT 175 ..... Data Quality & Performance Improvement (5)
- » HIT 221 ..... Intermediate Coding (5)
- » HIT 225 ..... Record Content and Standards II
- » HIT 279\*\* ..... Ethical Issues in Healthcare Leadership (2)

#### 5TH QUARTER (WINTER)

- » HIT 230 ..... Revenue Management (5)
- » HIT 235 ..... Alternate Care Records (2)
- » HIT 242 ..... Leadership and Management I (5)
- » HIT 279\*\* ..... Ethical Issues in Healthcare Leadership (2)

#### 6TH QUARTER (SPRING)

- » HIT 245 ..... Advanced Coding (5)
- » HIT 254 ..... HIT Capstone (5)
- » HIT 255 ..... HIT Professional Practice Experience (5)

### SUMMER ELECTIVE OPTIONS

(Course availability dependent upon enrollment)

- » HIT 250 ..... Inpatient Coding Clinical (2)

*\*1-credit taken three times with different topics*

*\*\* 1-credit seminar taken two times with different topics*

Courses do not run summer quarter, however we do offer some electives over summer. Students who wish to sit for the outpatient coding credential of CPC or CCS-P to complement their APS degree and RHIT credential may wish to take the additional elective of HIT 176 Advanced Outpatient Coding (5 credits), and/or HIT 186, Outpatient Clinical Coding (2-5 credits), in summer quarter. Students may also wish to take elective HIT 250, Inpatient Coding Clinical (2 credits). Course availability subject to sufficient enrollment.

## Additional Certificate Options Available

### Medical Billing Specialist

(48 credits)

The Medical Billing Specialist certificate may prepare students for employment as medical billers, patient account representatives, medical claims reviewer, outpatient coder, and a variety of other medical support positions. This program is offered in a fully online format.

The internship is composed of computer-based simulations mirroring the professional environment. Students are encouraged to find internship locations for networking. Students are recommended to have completed at least MATH 085 prior to admission with a C or higher to avoid any delays in certificate completion.

### ADMISSION REQUIREMENT

Must be completed before beginning the Medical Billing Specialist certificate technical core requirements and must be completed with a grade of "C" or better within two attempts.

- » ENGL& 101 ..... English Composition I (5)

#### 1ST QUARTER (WINTER)

- » CU 105 ..... Word I, Excel I (5)
- » HIT 130 ..... Medical Terminology I (3)
- » MO 101 ..... Healthcare Delivery and Alternate Care (5)

## Health Information Technology

### 2ND QUARTER (SPRING)

- » BUS 110 ..... Business Math (5)
- » HIT 141 ..... Outpatient Diagnostic Coding (2)
- » MO 110 ..... Medical Office Procedures (5)
- » MO 159 ..... Intro. to Outpatient Procedure Coding (4)

### 3RD QUARTER (SUMMER)

- » MO 143 ..... Medical Office Professional Development and Ethics (3)
- » MO 151 ..... Insurance/Claims Processing (5)
- » MO 185 ..... Medical Reimbursement Specialist Clinical (3)
- » CU 203 ..... Excel II (3)

### Medical Scribe

(19 credits)

The Medical Scribe Professional certificate may prepare students for employment as medical scribes in all types of healthcare environments to include emergency departments, physician offices, and urgent care.

### ADMISSION REQUIREMENT

There is no admission requirement for this certificate. Students may take the primary course (MO 115) when they meet the prerequisites of HIT 105, ENGL& 101, and BIOL& 175 with a C or higher (all but HIT 105 may be taken concurrently).

- » BIOL& 175 ..... Human Biology with Lab (5)  
or BIOL& 241 ..... Human Anatomy and Physiology 1 (5)  
& BIOL& 242 ..... Human Anatomy and Physiology 2 (5)
- » ENGL& 101 ..... English Composition I (5)
- » HIT 105 ..... Comprehensive Medical Terminology (5)
- » MO 115 ..... Medical Scribe (5)

## Human Services

### PROGRAM CHAIR

Barb Peterson  
253-566-5388 / bpeterson@tacomacc.edu

TCC's competency-based Human Services Professional program prepares students for employment as practitioners in social services, health, and addiction agencies. The program offers three completion options:

- a two-quarter (15 credits) Case Aide certificate
- a three-quarter (45 credits) Chemical Dependency certificate (meets the educational competencies for Chemical Dependency Professional [CDP] as defined by the Washington State Department of Health)
- a two-year Associates in Applied Science (AAS) degree in Human Services.

*NOTE: A grade of C or better is required for all courses required for this degree, the Case Aide certificates, and the Chemical Dependency certificate.*

### PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS degree or the certificate in Chemical Dependency, students will:

- Recognize historical influences that have led to the development of the Human Services profession.
- Explain the interaction and diversity of human systems including individual, interpersonal, group, family, organizational, community, and social.
- Analyze and apply major models used to provide services.
- Demonstrate the knowledge and skills required to effectively manage client and organizational information.
- Plan and evaluate service needs, strategies, and outcomes.
- Demonstrate the knowledge and skills required for service delivery and appropriate interventions.
- Develop and utilize effective professional Human Services communication skills.
- Recognize the values, attitudes, and ethics practices in Human Services.
- Develop awareness of one's own values, personalities, reaction patterns, interpersonal styles, and limitations.
- Recognize and apply elements of the continuum of care used in behavior health and recovery systems.

### PREREQUISITE COURSEWORK FOR ENTRY

To enter the Human Services program, students must assess at ENGL& 101 level or have successfully completed ENGL/ 095 with a C or higher.

## Human Services

### Case Aide Certificate

(15 credits)

The Case Aide certificate is designed to prepare students for entry-level employment opportunities with a wide variety of human service agencies.

- » HSP 100..... Introduction to Human Services (5)
- » HSP 103..... Therapeutic Approaches and Techniques (5)
- » HSP 112 ..... Best Practices in Human Services (5)

### Chemical Dependency Certificate

(45 credits)

The Chemical Dependency certificate meets the 23 educational competencies required by the Washington State Department of Health (WAC 246-811-030) for Chemical Dependency Professional (CDP) certification. TCC is an approved school (WAC 246-811-010/9). All 45 credits of this certificate must be earned at TCC to ensure students are meeting the 23 competencies required by the Washington State Department of Health.

The following are the required courses for the Chemical Dependency Certificate. Note that HSP 100 must be taken the first quarter along with other HSP courses

- » HSP 100..... Introduction to Human Services (5)
- » HSP 103..... Therapeutic Approaches and Techniques (5)
- » HSP 107..... Behavioral Health and Wellness (5)
- » HSP 112 ..... Best Practices in Human Services (5)
- » HSP 113 ..... Advanced Helping Strategies (5)
- » HSP 117 ..... Ethics and Professional Development (5)
- » HSP 121 ..... Survey of Addictions and Pharmacology (5)
- » HSP 126 ..... Cultural Competencies for Human Services (5)
- » HSP 291..... Supervised Clinical Practicum I (5)  
or 200 level Human Services specialty course (5)  
or 200 level Psychology or Sociology course (5)

*NOTE: The certification requirements for a Substance Use Disorder Professional (SUDP) in Washington state are an Associate's degree in human services or a related field, or a total of 90 quarter credits from an approved school. 45 quarter credits must be related to the substance use disorder profession and must include specific topics listed in <https://app.leg.wa.gov/WAC/default.aspx?cite=246-811-030> (WAC 246-811-030). If you have a degree in another field you may obtain this certification by accruing the required 45 quarter credits independent of an additional degree.*

### Associate in Applied Sciences Degree

(90 credits)

The eight core HSP courses are:

- » HSP 100..... Introduction to Human Services\*
- » HSP 103..... Therapeutic Approaches
- » HSP 107..... Behavioral Health and Wellness  
[formerly HSP 207]
- » HSP 112 ..... Best Practices in Human Services  
[formerly Fundamentals of Case Management]
- » HSP 113 ..... Advanced Helping Strategies  
[formerly HSP 106]
- » HSP 117 ..... Ethics and Professional Development  
[formerly HSP105]
- » HSP 121 ..... Survey of Addictions and Pharmacology  
[formerly Pharmacology & Survey of Chemical Dependency]
- » HSP 126..... Cultural Competencies for Human Services  
[formerly HSP 261 Understanding Diversity]
- » HSP 291..... Supervised Clinical Practicum I  
[formerly HSP 191]
- » HSP 292..... Supervised Clinical Practicum II  
[formerly HSP 192]
- » HSP 293..... Supervised Clinical Practicum III  
[formerly HSP 193]

*Note: \*HSP 100 is the prerequisite for taking all other HSP courses and successful completion of HSP 100, HSP 1112, and HSP 117 are required to begin a Practicum.*

#### SPECIALTY COURSES

Specialty courses are offered on rotating bases over a 2-year period

- » HSP 217..... Advocacy in Human Services
- » HSP 218..... Trauma Informed Care
- » HSP 224..... Dynamics of Family Violence
- » HSP 230..... Co-Occurring Disorders
- » HSP 241 ..... Working with Youth and Families (5)
- » HSP 262..... Loss and Grief through the Life Span

#### Required General Education Courses

##### COLLEGE LEVEL MATH:

- » BUS 110; or MATH& 107; or MATH& 146;  
or STATWAY (MATH 093 and MATH 136)
- » ENGL& 101& ..... English Composition PLUS
- » ENGL& 102; or ENGL 103;  
or CMST 110; CMST& 210; or CMST& 220

##### BEHAVIORAL SCIENCES:

- » PSYC& 100
- » SOC& 101

## Human Services

### Electives

Students completing the Associate in Applied Sciences degree in Human Services program must select 10 credits of related elective courses. Students may select specialty courses from the Human Services program and/or 200 level behavioral sciences courses. Specialty courses are usually taken during the last three quarters of the program.

### Specialization Courses

Students are encouraged to select two courses that relate to their academic and career goals. Ongoing academic advising with a Human services faculty member is provided to help students adjust program requirements to meet specific needs.

For information contact a Human Services faculty member.

- » HSP 217..... Advocacy in Human Services (5)
- » HSP 218..... Trauma Informed Care (5)
- » HSP 224..... Dynamics of Family Violence (5)
- » HSP 230..... Co-occurring Disorders (5)
- » HSP 241..... Working with Youth and Families (5)
- » HSP 262..... Loss and Grief Through Life Span (5)

## Networking & Cyber Security

### PROGRAM CHAIR

Sergio Hernandez

253-460-4362 / shernandez@tacomacc.edu

TCC's Networking and Cyber Security program prepares the student for careers in network administration, technical support, and database administration with a focus on cyber security. The program is designed for certificate pathways leading to the Associate in Applied Sciences (AAS) degree and includes a series of technical core courses that provide hands-on knowledge and skills in systems, data, networking, and security concepts. The program focuses on developing skills in effective teamwork, critical thinking, developing solutions to complex technical challenges, business integration, project management, effective communication, and ethical decision making. The program offers direct articulation to targeted Bachelor degree programs.

### PROGRAM LEARNING OUTCOMES

Upon successful completion of the course requirements for the AAS degree in Networking and Cyber Security, students will:

- Demonstrate effective verbal and written communication skills necessary in information technology.
- Exemplify professional and ethical behaviors required to perform effectively as an information technology team member within an organization.
- Implement critical thinking skills to provide sound solutions for information technology issues.
- Plan to take responsibility for own lifelong learning including anticipation and adaptation to ever-changing business and technology environments.
- Demonstrate an integrated, comprehensive proficiency in the content area of information technology; interpolate this knowledge to the real world.

### ADMISSION REQUIREMENTS: PREREQUISITE COURSEWORK FOR ENTRY

To enter the program students must meet the following requirements:

- Assessment above MATH 075 or completion of MATH 075 with a 'C' or higher
- Assessment at college-level English or completion of ENGL 095 with a 'C' or higher
- Completion of CU 100 with a 'C' or higher, or instructor permission

# Networking and Cyber Security

## DEGREE/CERTIFICATE COMPLETION REQUIREMENTS

All program coursework must be completed with 'C' grades or higher to qualify for any certificates or degrees. Networking & Cyber Security program certificates can be earned as stand-alone certificates or they can be applied to the AAS degree requirements.

## Help Desk Certificate

(19 credits)

Prepares students to perform fundamental PC support tasks and to hold entry-level jobs as help desk technicians. Students are encouraged to take the A+ certification exam upon certificate completion. Available with I-BEST support (see page 156).

- » CU 105 ..... Word I, Excel I (5)
- » CU 108 ..... Outlook (2)
- » IT 102 ..... Microcomputer Fundamentals (5)
- » IT 110 ..... Operating Systems I (5)
- » IT 112 ..... Help Desk Operations (2)

## Technical Support Certificate

(20 credits)

Builds on basic PC support and networking skills and experience to develop more advanced networking skills. Students are encouraged to take the Network+ certification exam upon certificate completion. Students must complete the Help Desk certificate or have equivalent work experience as determined by the program chair before completing this certificate.

- » IT 210 ..... Operating Systems II (5)
- » IT 211 ..... Technical Support of Windows Networks (5)
- » IT 260 ..... Client/Server Technology - LANs (5)
- » IT 261 ..... Administration of Networks (5)

**DEGREE OPTIONS:** Students in the degree pathway will choose from one of the following certificate options.

### Option 1:

## Network Support Certificate

(30 credits)

Prepares students to perform entry-level network administration tasks on both local and wide area networks. To complete the Network Support certificate, the student must first complete the requirements for the Help Desk and Technical Support certificates or have equivalent work experience as determined by the program chair.

- » IT 247 ..... IT Project Management (5)
- » IT 270 ..... Service and Support Fundamentals (5)
- » IT 271 ..... Internetworking (5)
- » IT 274 ..... Network Security Fundamentals (5)
- » IT 277 ..... Data Storage Security & Management (5)
- » IT 280 ..... Advanced Networking Technologies (5)

### Option 2:

## Cyber Security Certificate

(30 credits)

Prepares students to assess, defend, and remediate security risks for networked environments. The courses in this certificate provide hands-on expertise in using process, technology, and critical thinking skills to solve emerging security issues for business. Successful completion of this certificate prepares the student to be ready to pursue an entry-level position, upgrade a current role in an organization, or further their education. This certificate will be aligned with the requirements of recognized industry certifications (CompTia Security+, CCNA(R) Security, and CISSP Associate), and the industry standards of the National Security Agency (NSA), and the Committee on National Security Systems (CNSS), as the foundation of the CISSP.

To complete the Cyber Security certificate, the student must first complete requirements for the Help Desk and Technical Support certificates or have equivalent work experience as determined by the program chair.

- » IT 247 ..... IT Project Management (5)
- » IT 274 ..... Network Security Fundamentals (5)
- » IT 275 ..... Security Assessment & Remediation (5)
- » IT 277 ..... Data Storage Security & Management (5)
- » IT 278 ..... Incident Response & Intrusion Analysis (5)
- » IT 281 ..... Cyber Security Capstone (5)

## Networking and Cyber Security

### Option 3:

#### Database Management Certificate

(30 credits)

Designed to prepare students to provide database and application software support. The courses in the certificate provide expertise in using software applications and supporting users of database applications. Successful completion of the certificate prepares the student to be ready to pursue an entry-level position, upgrade a current role in an organization, or further their education. This certificate will be aligned with the requirements of recognized industry certifications (MCDBA - Microsoft Certified Database Administrator).

To complete the Network Support certificate, the student must first complete the requirements for the Help Desk and Technical Support certificates or have equivalent work experience as determined by the program chair.

- » IT 246..... Database Implementation (5)
- » IT 247..... IT Project Management (5)
- » IT 249..... Database Programming (5)
- » IT 274 ..... Network Security Fundamentals (5)
- » IT 277..... Information Management & Data Security (5)
- » IT 282..... Database Management Capstone (5)

#### Associate in Applied Sciences Degree

(93 credits)

The AAS degree includes additional coursework in wireless networking, security, business, project management, and communication. Students who complete the AAS degree will be prepared for more advanced supervisory positions after obtaining requisite field experience.

To complete the AAS degree, students must first complete the Network Support, Cyber Security, or Database Management certificate. Students are encouraged to take MATH& 107 if you need a transfer-level math. ENGL& 101 and CMST& 101 are transfer-level classes.

- » BUS 102..... Customer Service (2)
- » BUS 110..... Business Math (5)
- » BUS 164..... Leadership and Human Relations (5)
- » BUS 280 ..... Career Readiness Skills (2)
- » CMST& 101 ..... Introduction to Communication (5)
- » ENGL& 101 ..... English Composition I (5)

#### ELECTIVES

- » IT 230..... Introduction to Project Management(2)
- » IT 257..... Social Media (3)
- » IT 290..... Work Internship (5)
- » IT 299..... Independent Study & Special Projects (5)

## Additional Certificate Options

### Application Support Specialist Certificate

(49 credits)

This certificate is designed to prepare students in the use and support of software applications. Successful completion of the certificate prepares students for an entry-level position, upgrading their role in an organization, or to further their education.

#### ADMISSION REQUIREMENTS:

#### PREREQUISITE COURSEWORK FOR ENTRY

To enter the program students must meet the following requirements:

- Assessment above MATH 075 or completion of MATH 075 with a C or higher
- Assessment at college-level English or completion of ENGL 095 with a C or higher
- Completion of CU 100 with a C or higher, or instructor permission

#### CERTIFICATE COMPLETION REQUIREMENTS

- » BUS 102..... Customer Service (2)
- » BUS 110..... Business Math (5)
- » BUS 164..... Leadership and Human Relations (5)
- » BUS 280 ..... Career Readiness Skills (2)
- » CMST& 101 ..... Introduction to Communication (5)
- » CU 101 ..... Web-enabled Learning & Communication (2)
- » CU 104..... PowerPoint (1)
- » CU 105..... Word I, Excel I (5)
- » CU 108..... Outlook (2)
- » CU 110 ..... Access I (2)
- » CU 202..... Word II (3)
- » CU 203..... Excel II (3)
- » CU 210..... Access II (3)
- » ENGL& 101 ..... English Composition I (5)
- » IT 112 ..... Help Desk Operations (2)
- » IT 230..... Introduction to Project Management (2)



## Networking and Cyber Security

### e-HIM Certificate

(43 credits)

In collaboration with the Networking and Cyber Security program, TCC's Health Information Technology program offers an e-HIM (electronic-Health Information Management) certificate.

The health information management (HIM) field employs accredited professionals who are responsible for the organization and safe-keeping of a patient's health information. Until recently, HIT professionals were primarily concerned with paper documents, but information is now generated, stored, and accessed electronically. This certificate complements the Registered Health Information Technician (RHIT) and Registered Health Information Administrator (RHIA) credentials that allow HIT professionals to participate on health information management IT teams to electronically develop and/or manage health information.

### PREREQUISITE COURSEWORK FOR ENTRY

Completion of the Networking & Cyber Security AAS degree or completion of the Health Information Technology AAS degree program, or program chair permission and completion of CU 105 (or CU 102 and CU 103), ENGL& 101, and BUS 110 with a minimum grade of C or higher for each class.

### CERTIFICATE COMPLETION REQUIREMENTS

- » CU 108..... Outlook (2)
- » CU 110 ..... Access I (2)
- » CU 202..... Word II (3)
- » CU 203..... Excel II (3)
- » CU 210..... Access II (3)
- » HIT 110..... Healthcare Delivery Systems (5)
- » HIT 125 ..... Record Content and Standards I (5)
- » HIT 130 ..... Medical Terminology I (3)
- » HIT 126 ..... Information Communication Technologies (5)
- » IT 230..... Introduction to Project Management (2)
- » IT 246..... SQL Database Implementation (5)
- » IT 274 ..... Network Security Fundamentals (5)

## Nursing, RN Option

### ASSOCIATE DEAN FOR NURSING

Julie Benson

253-566-5240 / jbenson@tacomacc.edu

Tacoma Community College's Associate in Nursing program prepares the student for a career as a Registered Nurse. The programs structure is progressive. Upon satisfactory completion of the curriculum, the student is awarded an Associate in Nursing — Direct Transfer Agreement/Major Related Program (DTA/MRP) degree and is eligible to take the National Council Licensure Examination (NCLEX) for Registered Nursing.

This pathway prepares a student for licensure as a registered nurse, as well as for entry into a Bachelor of Science in Nursing completion degree. The DTA/MRP is designed to transfer to most Bachelor of Nursing programs at four-year colleges and universities in Washington State. The degree provides credit for all courses completed within the DTA/MRP (up to 90 credits) and recognizes 45 credits for successfully passing the NCLEX-RN.

TCC's Nursing program is approved by the Washington State Nursing Care Quality Assurance Commission and is accredited by the Accrediting Commission for Education in Nursing (ACEN).

### Nursing, Associates Degree: RN Option

The nursing courses in the full-time generic program are taught in a six-quarter sequence over a two-year period. Visit [www.tacomacc.edu/areasofstudy/careertraining/nursing/](http://www.tacomacc.edu/areasofstudy/careertraining/nursing/) for admission dates and quarter sequence.

### Nursing, Associates Degree: LPN to RN Option

Licensed Practical Nurses who wish to become Registered Nurses may apply for advanced standing in the program. LPNs are admitted into the program once a year in winter. LPNs enter Level 3 of the program.

### MISSION

To produce innovative Associate Degree nurses who provide safe quality care to diverse populations, invest in continued professional learning to maintain excellence, and inspire others in the profession of nursing. The nursing faculty will accomplish this through evidence based nursing education in an environment that promotes caring, diversity, ethics, excellence, holism, integrity, and patient centered care.

## Nursing, RN Option

### PROGRAM LEARNING OUTCOMES

Upon successful completion of the DTA/MRP Nursing degree, students will:

- Provide patient/client-centered care for diverse groups in the community across the lifespan in a manner that is holistic, caring, and demonstrates advocacy.
- Demonstrate professionalism in the following ways:
  - » Demonstrate skill in organization, prioritization, collaboration, delegation and supervision.
  - » Function ethically and legally within the standards and competencies of local, state, and national regulatory agencies and professional organizations.
  - » Demonstrate commitment to lifelong learning.
  - » Demonstrate humility by participation in evaluation, self care, and self reflection.
  - » Utilize quality improvement processes including responsible use of resources.
- Demonstrate competency in core nursing principles by being able to:
  - » Be prepared to pass NCLEX and be employable as an entry level generalist RN.
  - » Apply strong critical thinking and clinical judgement skills using evidence-based practice to make clinical decisions.
  - » Efficiently use nursing process for care delivery.
  - » Demonstrate basic competency in nursing skills.
  - » Apply safety principles and national safety standards.
  - » Effectively use healthcare related information and technology.
- Communicate effectively with individuals and groups in a respectful, professional manner, using both verbal and written formats.

### ADMISSION REQUIREMENTS

Students must take a number of general study courses and achieve other non-academic criteria before application can be made to the nursing program. These are designed to provide students with a strong foundation in science and humanities to prepare them for the rigor of the coursework upon admission. Considering the academic and non-academic requirements for admission, and all required courses in their program of study, students typically need at least three years to complete the DTA/MRP degree. For further clarification, please visit the Nursing program web pages at [tacomacc.edu/areasofstudy/careertraining/nursing/](http://tacomacc.edu/areasofstudy/careertraining/nursing/).

### PREREQUISITE FACTORED COURSEWORK FOR APPLICATION (30 credits)

The courses listed below are required for application into the nursing program. Grades from these courses are factored in our application review process. All factored pre-requisites must be successfully completed with a grade of B or higher, within two attempts. Attempts include all course withdrawals, as well as grades below 3.0, and include courses taken at all colleges attended in the last five years.

- » BIOL& 241..... Human Anatomy and Physiology 1 (5)
- » BIOL& 242..... Human Anatomy and Physiology 2 (5)
- » BIOL& 260..... General Microbiology (5)
- » CHEM& 121 ..... Introduction to Inorganic Chemistry (5) or CHEM161&... General Chemistry (5)
- » ENGL& 101 ..... English Composition I (5)
- » PSYC& 200 ..... Lifespan Psychology (5)

### PREREQUISITE NON-FACTORED COURSEWORK FOR APPLICATION (33 CREDITS)

The courses listed below are also required for application into the nursing program. Grades from these courses are not factored in the application review process. All non-factored prerequisites must be successfully completed with a grade of "C" or higher to meet degree requirements.

- » BIOL& 160..... General Cell Biology (5)
- » CMST& 210 ..... Interpersonal Communication (5)
- » ENGL& 102..... English Composition II (5) or ENGL 103..... English Composition III (5) or ENGL&235..... Technical Writing (5)
- » MATH& 146..... Introduction to Statistics (5)
- » NUTR& 101 ..... Human Nutrition (5) or NUTR 250..... Nutrition in Healthcare I (3)
- » PSYC& 100 ..... General Psychology (5)
- » Humanities - See note below\* (5)

*\*Any course identified as meeting the respective distribution requirement from Approved Distribution Course List (page 95).*

Students are encouraged to apply to the Nursing program as soon as their prerequisites are completed. Coursework completed at other colleges must be evaluated by TCC's Credential Evaluator. The applicant must apply for admission to TCC prior to submitting official transcripts for review. Please send transcripts to Enrollment Services in Bldg. 7 and complete the "Request to Evaluate Official Transcripts from Other Institutions" form. Do not send transcripts directly to the nursing program.

## Nursing, RN Option

### NON-ACADEMIC PROGRAM ENTRY REQUIREMENTS

- Exam results for the ATI Test of Essential Academic Skills (TEAS) – Applicants to the nursing program must receive at least a minimum overall score of 70%, and a minimum score in each of the categories as follows:

- » Reading 75%
- » Math 72%
- » Science 63%
- » English 70%

Students are allowed two attempts each year. TEAS assessment scores must be submitted as part of the application and results can be no more than four years old at the application deadline.

- Washington State Nursing Assistant Certification (NAC), or if pursuing the LPN to RN degree option, a Washington State Practical Nursing License (LPN)
- Dependable transportation
- Dependable childcare (if applicable)
- Background screening is required by clinical facilities which includes, but not limited to, National Criminal Background check, Washington State Patrol Background Check (WATCH), Office of Inspector General (OIG) background screen, General Services Administration (GSA) background screen and the Department of Social and Human Services (DSHS) background check.
- CPR card. Only the American Heart Association Basic Life Support (BLS) provider card will be accepted. Online courses are not acceptable. Name must appear on the card.
- Health insurance proof of coverage with coverage period. If the name on the card does not match the student, proof of coverage is required.
- HIV/AIDS training. Certificate of completion showing seven hours of training.
- Vehicle insurance. Proof of coverage with coverage period. If the student does not own a vehicle or owns a vehicle but does not drive, they will need to submit a written statement signed and dated by the student.
- Proof of immunizations:
  - » Hepatitis B
  - » Influenza
  - » MMR
  - » PPD
  - » Tdap
  - » Varicella
- Drug testing will be required at various clinical facilities prior to approval for clinical assignment. Students who enter the TCC program should be aware that at any time they may be expected to undergo drug testing to meet clinical requirements.

### Associate in Nursing DTA/MRP

(72 Credits)

#### LEVEL 1

- » NURS 115 ..... Skills and Assessment Lab I (2)
- » NURS 153 ..... Pharmacology I (1)
- » NURS 101 ..... Health and Illness I (2)
- » NURS 181 ..... Processional Concepts I (1)
- » NURS 191 ..... Clinical I (3)
- » SOCS 204 ..... Psychosocial Issues in Healthcare I (3)

#### LEVEL 2

- » NURS 116 ..... Skills and Assessment Lab II (3)
- » NURS 154 ..... Pharmacology II (1)
- » NURS 102 ..... Health and Illness II (5)
- » NURS 192 ..... Clinical II (3)

#### LEVEL 3

- » NURS 124 ..... Clinical Simulation III (2)
- » NURS 155 ..... Pharmacology III (1)
- » NURS 103 ..... Health and Illness III (3)
- » NURS 193 ..... Clinical III (3)
- » PHIL 201 ..... Ethics and Policy in Healthcare I (3)

#### LEVEL 4

- » NURS 226 ..... Clinical Simulation IV (2)
- » NURS 256 ..... Pharmacology IV (1)
- » NURS 201 ..... Health and Illness IV (4)
- » NURS 294 ..... Clinical IV (3)
- » PHIL 202 ..... Ethics and Policy in Healthcare II (2)

#### LEVEL 5

- » NURS 227 ..... Clinical Simulation V (2)
- » NURS 257 ..... Pharmacology V (1)
- » NURS 202 ..... Health and Illness V (4)
- » NURS 295 ..... Clinical V (3)
- » SOCS 205 ..... Psychosocial Issues in Healthcare II (2)

#### LEVEL 6

- » NURS 228 ..... Clinical Simulation VI (1)
- » NURS 234 ..... Transition to Practice: Seminar (1)
- » NURS 244 ..... Preparation for the National Council Licensing Exam (1)
- » NURS 286 ..... Processional Concepts VI (1)
- » NURS 296 ..... Transition to Practice: Clinical VI (6)
- » NUTR 251 ..... Nutrition in Healthcare II (2)

**Total Credits Required for Associate in Nursing DTA/MRP Degree: 135**

## Nursing, RN Option

### DEGREE REQUIREMENTS

- » 135 quarter credit hours. The degree includes 60 core nursing curriculum credits (45 core nursing credits in and an additional 15 nursing core curriculum credits)
- » At least 30 applicable credits must be earned at Tacoma Community College
- » A cumulative grade point average of 2.0 in all coursework applied to the degree and a cumulative grade point average of 2.00 in all TCC college level courses (Minimum grade-point requirements are established by each receiving institution. Meeting minimum requirements does not guarantee admission. Nursing Programs are competitive and may require a higher GPA overall, a higher GPA in selected subset of courses or a specific grade in one or more courses)

### LPN to RN Option

#### LEVEL 3

- » NURS 124 ..... Clinical Simulation III (2)
- » NURS 155 ..... Pharmacology III (1)
- » NURS 103 ..... Health and Illness III (3)
- » NURS 193 ..... Clinical III (3)
- » PHIL 201 ..... Ethics and Policy in Healthcare I (3)
- » SOCS 204 ..... Psych Issues in Healthcare (3)

#### LEVEL 4

- » NURS 226 ..... Clinical Simulation IV (2)
- » NURS 256 ..... Pharmacology IV (1)
- » NURS 201 ..... Health and Illness IV (4)
- » NURS 294 ..... Clinical IV (3)
- » PHIL 202 ..... Ethics and Policy in Healthcare II (2)

#### LEVEL 5

- » NURS 227 ..... Clinical Simulation V (2)
- » NURS 257 ..... Pharmacology V (1)
- » NURS 202 ..... Health and Illness V (4)
- » NURS 295 ..... Clinical V (3)
- » SOCS 205 ..... Psychosocial Issues in Healthcare II (2)

#### LEVEL 6

- » NURS 228 ..... Clinical Simulation VI (1)
- » NURS 234 ..... Transition to Practice: Seminar (1)
- » NURS 244 ..... Preparation for the National Council Licensing Exam (1)
- » NURS 286 ..... Professional Concepts VI (1)
- » NURS 296 ..... Transition to Practice: Clinical VI (6)
- » NUTR 251 ..... Nutrition in Healthcare II (2)

### Total Credits Required for LPN to RN

**Associate in Nursing DTA/MRP Degree: 114**

### TRANSFER

Students completing the Associates in Nursing DTA/MRP and successfully passing the National Council Licensure Examination for Registered Nurses (NCLEX-RN), who have also met any specific GPA requirements and background checks, will be regarded as having met the minimum preparation for consideration for admission to the RN to BSN program unless an exception is specifically noted by the agreement.

Baccalaureate institutions will apply a minimum of 90-quarter credits required under this agreement to the credits required in the bachelor's degree, plus 45 credits for successfully passing the NCLEX-RN, for a total of 135 credits.

Students intending to transfer should check in early with their potential transfer institution regarding:

- Any requirements for overall minimum college-level GPA, a higher GPA requirement for a subset of courses or a specific minimum grade in one or more courses.
- Specific courses which should be taken when options are listed.
- Additional "university-specific" requirements for admission that are not prerequisites identified in the DTA. Courses may be individualized based on baccalaureate college.
- Application deadlines for transfer admission. These vary from institution to institution.

It is important to note that the degree prepares students for upper division coursework, but does not guarantee students admission to the major.

# Nursing, Assistant Certificate

## Certified Nursing Assistant (I-BEST)

Program Director: Mary Stobie RN, MSN

253-460-4439 / mstobie@tacomacc.edu

I-BEST Program Information: Shawn Story

253-460-4453 / sstory@tacomacc.edu

TCC's Nursing Assistant, Certified program prepares students for employment in healthcare, as a Certified Nursing Assistant. This is a 12 credit program, one quarter program (Split between two quarters for the I-BEST program) that includes classroom and clinical training. Course work provides students with basic nursing skills including, but not limited to:

- » Patient environment
- » Patient psychological needs
- » Basic nursing procedures
- » Nutrition
- » Body mechanics
- » Safety
- » Communication
- » Terminology
- » CPR Training

Upon successful completion of the courses, students will receive a Certificate of Completion from Tacoma Community College and will be qualified to take the examination to become a Washington State Certified Nursing Assistant.

### NON-ACADEMIC PROGRAM ENTRY REQUIREMENTS

- » Washington State Patrol Background checks (and any required federal checks)
- » Health insurance
- » Immunization
- » Government Issued Photo Identification

Students are responsible for arranging dependable transportation to and from clinical sites and dependable child/dependent care.

### ADMISSION REQUIREMENTS FOR THE NAC PROGRAM:

- » Placement at Math 85 or higher
- » Placement at English 85 or higher
- » Available with I-BEST support (see page 156)
- » Government Issued Photo Identification

### CORE REQUIREMENTS (12 CREDITS)

- » HT 110 ..... Fundamentals of Patient Care (5)
- » HT 120 ..... Patient Care Clinical (4)
- » HT 198 ..... Introduction to Health Careers (3)

# Paralegal

## PROGRAM CHAIR

Jennifer Sorensen, Esq.  
253-566-5053 / jsorensen@tacomacc.edu

TCC's Paralegal program prepares students for employment in the legal services field as specialists who will provide assistance to attorneys or other legal professionals.

Students can earn an Associate in Applied Sciences (AAS) degree (Paralegal); or, with a previously earned Associate of Arts and Sciences or Bachelor's degree, the student may pursue the Paralegal Pro-Certificate.

Students who transfer from other paralegal programs must contact the Program Chair to discuss the law course transfer credit policy. Although the Associate in Applied Science degree is not a transfer degree, students interested in attending law school are encouraged to take advantage of the various law courses offered in this program.

Upon completion of this AAS degree program, students may continue their education and work towards a Bachelor of Applied Science (BAS) degree offered at a number of Washington State Community and Technical colleges including Tacoma Community College. Students intending to transfer to a four-year university may be required to take additional courses depending on the requirements of the particular program or degree. Students who plan to transfer should meet with the program chair to plan their course selection and sequence.

Students are eligible to select only one Paralegal program depending on educational background. Students may not simultaneously obtain a Paralegal degree and Paralegal certificate, or two Paralegal certificates using the same set of courses. Students must obtain a minimum grade of C in all courses.

TCC's Paralegal program is approved by the American Bar Association.

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the Paralegal AAS degree, Preferred Pro-Certificate, or Limited License Legal Technician Preparation Certificate, students will:

- Recognize ethical issues that arise in a legal work environment and apply rules of professional conduct to resolve them
- Demonstrate oral and written skills that paralegals use on the job
- Apply basic principles of legal analysis
- Use computers and other technology for document production, law office management, and trial preparation

- Demonstrate sensitivity through adaptability and flexibility in working with a diverse group of people
- Manage multi-tasks while prioritizing them to meet deadlines

## PREREQUISITE COURSEWORK FOR ENTRY

- Assessment at college-level English with a minimum C grade.
- Assessment at college-level reading with a minimum C grade.
- Students must retake required courses in which they earned C- grades or lower. For elective courses in which C grades or lower are earned, students may retake the original course or choose to earn a C grade or higher in another elective course.

## Associate in Applied Sciences Degree

(100 credits)

### CORE REQUIREMENTS (57 CREDITS)

- » CU 105..... Word I, Excel I (5)
- » PLST 106..... Professional Document Production (3)
- » PLST 149..... Writing Basics for Paralegals (3)
- » PLST 150..... Paralegal Fundamentals and Ethics (5)
- » PLST 151..... Legal Research and Writing I (5)
- » PLST 152..... Introduction to Civil Law (5)
- » PLST 153..... Civil Procedure I (5)
- » PLST 154..... Computer Applications in the Law (3)
- » PLST 155..... Health/Dealing with Stress (1)
- » PLST 156..... Criminal Procedure for Paralegals (5)
- » PLST 232 ..... Interviewing and Investigation (5)
- » PLST 233 ..... Internship I - Paralegal (5)
- » PLST 239 ..... Transition Planning (1)
- » PLST 251 ..... Legal Research and Writing II (3)
- » PLST 253 ..... Civil Procedure II (3)

### ELECTIVE COURSES (9 CREDITS MINIMUM FROM THE FOLLOWING)

- » PLST 221 ..... Family Law (3)
- » PLST 222 ..... Probate/Estate Planning (3)
- » PLST 223 ..... Alternative Dispute Resolution (3)
- » PLST 224 ..... Real Estate Law (3)
- » PLST 225 ..... Bankruptcy Law (3)
- » PLST 226 ..... Administrative Law (3)
- » PLST 228 ..... Employment and Labor Law (3)
- » PLST 230 ..... Business Organization/ Corporations (3)
- » PLST 231 ..... Contracts/Commercial Transactions (3)
- » PLST 234 ..... Internship II - Paralegal (5)
- » PLST 235 ..... Evidence and e-Discovery (3)
- » PLST 237 ..... Introduction to Tax Law (3)

## Paralegal

### COMPLETION REQUIREMENTS (35 CREDITS)

- » ENGL& 101 ..... English Composition I (5)
- » CMST& 220 ..... Public Speaking (5)
- » BUS 110 ..... Business Math (5)  
or MATH 90 ..... Elementary Algebra (5)
- » Natural Science - See note below\* (5)
- » Political Science/ History - See note below\* (5)
- » Sociology/ Psychology - See note below\* (5)
- » Multicultural Course - See note below\* (5)

*\*Any course identified as meeting the respective distribution requirement for TCC's APS degree*

### Paralegal Preferred Pro-Certificate

(56 credits)

To enter this certificate program, students must show evidence of completion of Associate in Arts & Sciences or a Bachelor of Arts degrees, earn a minimum C grade or higher in all required paralegal courses, and provide evidence of meeting related study requirements. Students must obtain a minimum grade of C in all courses.

#### CORE REQUIREMENTS (53 CREDITS)

- » CU 105 ..... Word I, Excel I (5)
- » PLST 106 ..... Professional Document Production (3)
- » PLST 150 ..... Paralegal Fundamentals and Ethics (5)
- » PLST 151 ..... Legal Research and Writing I (5)
- » PLST 152 ..... Introduction to Civil Law (5)
- » PLST 153 ..... Civil Procedure (5)
- » PLST 154 ..... Computer Applications in the Law (3)
- » PLST 156 ..... Criminal Procedure for Paralegals (5)
- » PLST 232 ..... Interviewing and Investigation (5)
- » PLST 233 ..... Internship I - Paralegal (5)
- » PLST 239 ..... Transition Planning (1)
- » PLST 251 ..... Legal Research and Writing II (3)
- » PLST 253 ..... Civil Procedure II (3)

#### ELECTIVE COURSES (3 CREDITS)

Select a minimum of 3 credits from the following:

- » PLST 221 ..... Family Law (3)
- » PLST 222 ..... Probate/Estate Planning (3)
- » PLST 223 ..... Alternative Dispute Resolution (3)
- » PLST 224 ..... Real Estate Law (3)
- » PLST 225 ..... Bankruptcy Law (3)
- » PLST 226 ..... Administrative Law (3)
- » PLST 228 ..... Employment and Labor Law (3)
- » PLST 230 ..... Business Organization/Corporation (3)
- » PLST 231 ..... Contracts/Commercial Transactions (3)
- » PLST 234 ..... Internship II - Paralegal (5)
- » PLST 235 ..... Evidence and e-Discovery (3)
- » PLST 237 ..... Introduction to Tax Law (3)

### Limited License Legal Technician Preparation Certificate

(45 credits)

After the Washington Supreme Court's decision to sunset the LLLT program, TCC will no longer admit new students as of June 2020 to the Limited License Legal Technician Preparation Certificate. This certificate will remain available only to currently enrolled students. Current students must contact the WSBA to determine necessary licensing requirements.

The LLLT Preparation Certificate consists of 45 credits of legal specialty courses. 37 of the 45 credits are specified by the Washington State Bar Association. The remaining 8 credits can be any PLST course the student chooses.

Upon successful completion of this certificate, a student will be eligible to apply for admission to the next step of the education requirement through the WSBA. Refer to the WSBA LLLT website for the full list of education and other requirements necessary to become a LLLT. Students must obtain a minimum grade of C in all courses.

#### CORE REQUIREMENTS (37 CREDITS)

- » PLST 150 ..... Paralegal Fundamentals and Ethics (5)
- » PLST 151 ..... Legal Research and Writing I (5)
- » PLST 152 ..... Introduction to Civil Law (5)
- » PLST 153 ..... Civil Procedure (5)
- » PLST 154 ..... Computer Applications in the Law (3)
- » PLST 231 ..... Contracts (3)
- » PLST 232 ..... Interviewing and Investigation (5)
- » PLST 251 ..... Legal Research and Writing II (3)
- » PLST 253 ..... Civil Procedure II (3)

#### ELECTIVE COURSES (8 CREDITS)

Select a minimum of 8 credits from the following:

- » PLST 106 ..... Professional Document Production (3)
- » PLST 149 ..... Writing Basics for Paralegals (3)
- » PLST 156 ..... Criminal Procedure for Paralegals (5)
- » PLST 221 ..... Family Law (3)
- » PLST 222 ..... Probate/Estate Planning (3)
- » PLST 223 ..... Alternative Dispute Resolution (3)
- » PLST 224 ..... Real Estate Law (3)
- » PLST 225 ..... Bankruptcy Law (3)
- » PLST 226 ..... Administrative Law (3)
- » PLST 228 ..... Employment and Labor Law (3)
- » PLST 230 ..... Business Organization/Corporation (3)
- » PLST 233 ..... Internship I - Paralegal (5)
- » PLST 234 ..... Internship II - Paralegal (5)
- » PLST 235 ..... Evidence and e-Discovery (3)
- » PLST 237 ..... Introduction to Tax Law (3)

# Radiologic Science

## PROGRAM CHAIR

Lielie Jarvis, MAOL, RT(R)  
lj Jarvis@tacomacc.edu

TCC's Radiologic Science program prepares students for employment as Radiologic Technologists and leads to an Associate in Applied Sciences (AAS) degree. Clinical practice is performed in program affiliated hospitals and clinic imaging centers. TCC's Radiologic Science program is in Diagnostic Radiography only. The program courses are offered sequentially and students should plan to attend full time.

The TCC Radiologic Science program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, 312.704.5300, email: mail@jrcert.org  
The JCERT website is: www.jcert.org

Graduates of the Radiologic Science program are eligible to apply to take the national certification examination administered by the American Registry of Radiologic Technologists. Successful completion of the registry examination results in national certification as a Registered Radiologic Technologist, RT (R) ARRT.

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS degree in Radiologic Science, students will:

- Perform competently in the clinical arena including application of correct positioning skills and demonstration of correct application of technical factors.
- Communicate effectively with patients and members of the health care team by demonstrating effective oral and written communication skills.
- Think critically and adapt to changing conditions, such as adapting positioning skills for trauma patients and technical factors for atypical exams.
- Demonstrate professionalism as members of the health care team, including demonstration of responsibility and accountability.

## PREREQUISITES COURSEWORK FOR APPLICATION

(35 credits)

- » HIT 130 ..... Medical Terminology I (3)
- » BIOL& 241 ..... Human Anatomy and Physiology 1 (5)
- » BIOL& 242 ..... Human Anatomy and Physiology 2 (5)
- » CHEM 121 ..... Introduction to Inorganic Chemistry (5)
- » MATH 095 ..... Intermediate Algebra (5)
- » ENGL& 101 ..... English Composition I (5)
- » CMST& 101 ..... Introduction to Communication (5)  
or CMST 110 ..... Multicultural Communication (5)  
or CMST& 210 ... Interpersonal Communication (5)  
or CMST& 220... Public Speaking (5)

*All prerequisite and RS course work must be completed with a C grade or higher.*

## NON-ACADEMIC REQUIREMENTS FOR PROGRAM ENTRY

Contact the Radiologic Science program for information about:

- » Criminal and federal fraud background checks
- » Health insurance
- » Immunizations
- » Students are responsible for arranging dependable transportation to and from the clinical sites and dependable child/dependent care.

Admission to the Radiologic Science program is competitive. There are usually more applicants than available positions. Students who complete prerequisite courses and meet other application requirements are not guaranteed program admission.



## Radiologic Science

### Associate in Applied Sciences Degree

(114 credits)

#### 1ST QUARTER (FALL 18 CREDITS)

- » RS 100 ..... Radiologic Sciences Orientation (3)
- » RS 101 ..... Fundamentals of Radiologic Science and Health Care (4)
- » RS 140 ..... Radiographic Positioning I (5)
- » RS 150 ..... Principles of Image Formation (1)
- » RS 170 ..... Intro. to Fundamentals of Patient Care (5)

#### 2ND QUARTER (WINTER 15 CREDITS)

- » RS 108 ..... Radiation Physics I (4)
- » RS 120 ..... Clinical Education I (5)
- » RS 141 ..... Radiographic Positioning II (5)
- » RS 153 ..... Principles of Digital Radiography I (1)

#### 3RD QUARTER (SPRING 14 CREDITS)

- » RS 109 ..... Radiation Physics II (4)
- » RS 121 ..... Clinical Education II (5)
- » RS 142 ..... Radiographic Positioning III (5)

#### 4TH QUARTER (SUMMER 10 CREDITS)

- » RS 122 ..... Clinical Education III (10)

#### 5TH QUARTER (FALL 17 CREDITS)

- » RS 225 ..... Clinical Education IV (8)
- » RS 243 ..... Radiographic Positioning IV (3)
- » RS 200 ..... Cross Sectional Anatomy (3)
- » RS 214 ..... Imaging Pathology (3)

#### 6TH QUARTER (WINTER 14 CREDITS)

- » RS 216 ..... Pharmacology and IV Therapy (3)
- » RS 226 ..... Clinical Education V (7)
- » RS 233 ..... Leadership and Management (1)
- » RS 244 ..... Radiographic Positioning V (3)

#### 7TH QUARTER (SPRING 16 CREDITS)

- » RS 250 ..... Advanced Health care Organization (3)
- » RS 227 ..... Clinical Education VI (7)
- » RS 255 ..... Advanced Imaging Modalities (2)
- » RS 280 ..... Computed Tomography (2)
- » RS 290 ..... Radiography Registry Review (2)

#### 8TH QUARTER (SUMMER 10 CREDITS)

- » RS 228 ..... Clinical Education VII (10)

## Respiratory Therapy

### PROGRAM CHAIR

Greg Carter, RRT

253-566-5231 / gcarter@tacomacc.edu

The Respiratory Therapy program prepares students for employment as respiratory care practitioners and leads to an Associate in Applied Sciences (AAS) degree. The program is full time and sequential, consisting of seven instructional quarters offered during daytime hours. Students complete classroom and laboratory course work on campus and gain clinical experience in affiliated clinical sites.

Upon successful completion of this program, graduates are eligible to take the Therapist Multiple-Choice examination (TMC) administered by the National Board for Respiratory Care (NBRC). The TMC examination is designed to objectively measure essential knowledge, skills, and abilities required of entry-level therapists, as well as determine eligibility for the Clinical Simulation examination. There are two established cut scores for the TMC examination. If a candidate achieves the lower cut score, they will earn the Certified Respiratory Therapist (CRT) credential. If a candidate achieves the higher cut score, they will earn the CRT credential and become eligible for the Clinical Simulation examination. Candidates who successfully pass the Clinical Simulation exam will earn their Registered Respiratory Therapist (RRT) credential. The CRT and/or RRT credentials are used as the basis for the licensure in all of the 49 states that regulate practice of respiratory care.

Respiratory therapists must be licensed by the state as respiratory care practitioners. Requirements include completion of an approved training program, a background investigation, and earning either the CRT and/or RRT credential granted by the National Board for Respiratory Care.

The Respiratory Therapy program is accredited by the Commission on Accreditation for Respiratory Care (CoARC) ([www.coarc.com](http://www.coarc.com)). Admission to the Respiratory Therapy program is competitive. There are usually more program applicants than available positions. Students who complete program prerequisite and co-requisite courses and meet the other application requirements are not guaranteed program admission.

# Respiratory Therapy

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the AAS degree in Respiratory Therapy, students will:

- Apply the respiratory care knowledge necessary to function in a health care setting.
- Use critical thinking skills to recommend appropriate diagnostic and therapeutic procedures using patient data from laboratory and physiologic evaluations.
- Perform cardiopulmonary therapeutic procedures and modalities appropriate to level of training.
- Function effectively as members of health care teams.
- Exemplify professional and ethical behavior.

## NON-ACADEMIC PROGRAM ENTRY REQUIREMENTS

- » Criminal and federal fraud background checks
- » Health insurance
- » Immunizations

## PREREQUISITE COURSEWORK FOR APPLICATION

(23 credits)

All prerequisite courses must be completed with a grade of C or higher before applications are accepted. All math and science prerequisite courses must be completed within 10-years of the application date.

- » BIOL& 241 ..... Anatomy and Physiology 1 (5)
- » BIOL& 242 ..... Anatomy and Physiology 2 (5)
- » HIT 130 ..... Medical Terminology I (3) or equivalent
- » MATH 095 ..... Intermediate Algebra (5) or higher
- » PSYC& 100 ..... General Psychology (5)  
or PSYC& 200 ..... Lifespan Psychology (5)

## Associate in Applied Sciences Degree

(100-104 credits)

### 1ST QUARTER (FALL 13 CREDITS)

- » RC 150 ..... Fundamentals of RC (4)
- » RC 160 ..... Cardiopulmonary A & P and Pathophysiology (4)
- » RC 175 ..... Respiratory Care Orientation (2)
- » RC 180 ..... Respiratory Therapy Clinical I (3)
- » RC 193 ..... Respiratory Pharmacology I (1)

### 2ND QUARTER (WINTER 14 CREDITS)

- » RC 151 ..... Fundamentals of RC II (4)
- » RC 161 ..... Arterial Blood Gases (3)
- » RC 171 ..... Respiratory Therapy Equipment II (3)
- » RC 181 ..... Respiratory Therapy Clinical II (3)
- » RC 194 ..... Respiratory Pharmacology II (1)

### 3RD QUARTER (SPRING 15 CREDITS)

- » RC 152 ..... Mechanical Ventilation (4)
- » RC 162 ..... Advanced RC Pathophysiology (3)
- » RC 172 ..... Respiratory Therapy Equipment III (4)
- » RC 182 ..... Respiratory Therapy Clinical III (3)
- » RC 195 ..... Respiratory Pharmacology III (1)

### 4TH QUARTER (SUMMER 16 CREDITS)

- » CMST& 101 ..... Introduction to Communication (5)  
or another 5 credit CMST class
- » RC 153 ..... Alternative Procedures in RC (3)
- » RC 165 ..... Evolving Roles in RC (2)
- » RC 183 ..... Respiratory Therapy Clinical IV (4)
- » RC 290 ..... Ethics and Professionalism  
in Respiratory Care (online) (2)

### 5TH QUARTER (SECOND FALL 14 CREDITS)

- » RC 192 ..... Advanced Mechanical Ventilation (4)
- » RC 240 ..... Advanced Assessment & Diagnosis (3)
- » RC 263 ..... Pulmonary Functions (3)
- » RC 280 ..... Specialty Clinical Rotation (4)

### 6TH QUARTER (SECOND WINTER 11-15 CREDITS)

- » CU ..... Computer User course (1-5)
- » RC 251 ..... Respiratory Pathophysiology  
Case Presentations (2)
- » RC 261 ..... Pediatric and Neonatal Respiratory Care (4)
- » RC 281 ..... Advanced Critical Care Clinical Rotation (4)

### 7TH QUARTER (SECOND SPRING 16 CREDITS)

- » ENGL& 101 ..... English Composition (5)
- » RC 262 ..... Review of Applications of Respiratory Care (4)
- » RC 272 ..... Pulmonary Rehabilitation, Home Care  
and Assistance in Specialty Procedures (3)
- » RC 282 ..... Neonatal Clinical Rotation (2)
- » RC 283 ..... Specialty Clinical Rotation II (2)

### ADDITIONAL COURSE OPTION (1-5 CREDITS)

- » RC 299 ..... Individual Study in Respiratory Therapy  
Technology (1-5)

# WCCW Horticulture, Floriculture & Organic Farming

## PROGRAM LEAD/LEAD PROFESSOR

Ed Tharp  
etharp@tacomacc.edu

The Horticulture Program at WCCW is an award winning one-year certificate program with concentrations in Ornamental Horticulture, Landscape Design, Maintenance, Plant Health, and Floriculture. This program provides students with marketable job skills. Students put their knowledge to work by designing and maintaining the grounds throughout the institution and by creating flower arrangements for sale to the local community.

Organic Farming is a separate 12 credit certificate for graduate students who move onto the CSC Mother Earth farming crew. Graduate students are eligible to enroll as well and can display their skills in the vegetable gardens at WCCW.

**Note: currently, this program is only offered at TCC's campus at the Washington Corrections Center for Women.**

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the requirements for the certificate in Horticulture, students will meet minimum requirements to apply for a positions in related fields. Students will have knowledge to obtain WSDA pesticide license.

## ADMISSION REQUIREMENTS: PREREQUISITE COURSEWORK FOR ENTRY

To enter the program, students must meet the following requirements:

- High school diploma or GED
- Assessment above MATH 85 or completion of MATH 85 with a C or higher
- Assessment above ENGL 95 or completion of ENGL 95 with a C or higher

## GENERAL REQUIREMENTS

(15 credits)

- » ENGL& 101 ..... English Composition I (5)
- » BUS 110 ..... Business Math (5)
- » BUS 164 ..... Leadership & Human Relations (5)

## CERTIFICATE REQUIREMENTS

All program coursework must be completed with 'C' grades or higher to qualify for any certificates.

### Horticulture Science Certificate

(12 credits)

- » HORT 101 ..... Horticulture Science (3)
- » HORT 102 ..... Plant Pest Management (3)
- » HORT 103 ..... Pruning Principles (3)
- » HORT 104 ..... Plant Propagation (3)

### Grounds Maintenance Certificate

(11 credits)

- » HORT 105 ..... Identification Of Landscape Plants (3)
- » HORT 106 ..... Landscape Equipment (2)
- » HORT 107 ..... Landscape Maintenance (3)
- » HORT 108 ..... Irrigation Principles (3)

### Landscape Design Certificate

(12 credits)

- » HORT 109 ..... Landscape Design Principles (3)
- » HORT 110 ..... Landscape Turf (3)
- » HORT 111 ..... Computer Landscape Design (3)
- » HORT 112 ..... Landscape Construction Estimating (3)

### Commercial Floral Practices Certificate

(9 credits)

- » HORT 113 ..... Beginning Floral Design (3)
- » HORT 114 ..... Advanced Floral Design (3)
- » HORT 115 ..... Floral Business Practices (3)

### Organic Farming Certificate

(12 credits)

- » OHORT 116 ..... Organic Farming & Gardening Skills (4)
- » OHORT 117 ..... Applied Soil Science (4)
- » OHORT 118 ..... The Economics Of Organic Farming & Gardening (4)

# WCCW Web Development

## PROGRAM LEAD/LEAD PROFESSOR

Benjamin Erkan  
berkan@tacomacc.edu

In this four quarter, full stack certificate program, students learn computer science fundamentals paired with a study of web development technologies to prepare for a career in web development and/or future academics in computer science. They will become familiar with the tools and technologies used to write software for the web – gaining the skills to develop software and computer programs, write code, and design websites. Students then combine everything they have learned for their Capstone Project, utilizing a front-end framework for user interface development and integrating server side services needed to process and persist data.

Harnessing the power of code allows for creativity in your everyday work, being both rewarding and full of opportunity. Throughout the program, students work with industry leaders to create a portfolio of projects including websites, databases, and web servers that will allow them to advance in the growing field of software development.

**Note: currently, this program is only offered at TCC's campus at the Washington Corrections Center for Women.**

## PROGRAM LEARNING OUTCOMES

Upon successful completion of the requirements for the certificate in Web Programming, students will gain:

- Proficiency in building modern user interfaces with HTML, CSS, JavaScript & React.js
- Proficiency in building Application Program Interfaces (APIs) via Node & Express
- Proficiency in Database management

## ADMISSION REQUIREMENTS: PREREQUISITE COURSEWORK FOR ENTRY

To enter the program, students must meet the following requirements:

- High school diploma or GED
- Assessment above MATH 85 or completion of MATH 85 with a C or higher

## CERTIFICATE REQUIREMENTS

All program coursework must be completed with 'C' grades or higher to qualify for any certificates.

- » CMST& 101 ..... Introduction to Communication (5)
- » CPT 101 ..... Introduction to Web Development (5)
- » CPT 103 ..... Advanced Web Development (5)
- » CPT 104 ..... Expert Web Development (5)
- » CPT 190 ..... Testing & Debugging Java Script (3)
- » CPT 193 ..... Web Development Tools (4)
- » CPT 194 ..... Professional Portfolio Development (4)
- » CPT 201 ..... Intermediate Web Development (5)
- » CPT 290 ..... Web Development Teams (4)
- » CPT ??? ..... Capstone Project (5) \*\*

\*\* This is the new course that we are currently designing and will propose.

# TCC Transitional Studies

Tacoma Community College offers a variety of courses and programs to help students build their reading, writing, communication, and mathematics skills and prepare for transition to workforce training or academic transfer programs. In addition, TCC offers a variety of training programs and courses designed for speakers of languages other than English

## Program Learning Outcomes

These learning outcomes were developed in the course of faculty conversations regarding what TCC faculty want students to be able to know and do after completing TCC programs.

Students who complete English for Academic Purposes (EAP), Developmental Education, or Basic Skills programs may use these skills in TCC's college-level courses. IBEST students use these skills when they are employed in specific careers.

### BASIC EDUCATION FOR ADULTS: ADULT BASIC EDUCATION (ABE/HS+)

Upon successful completion of the program, the student will be able to:

- Demonstrate academic reading, math, written and oral communication skills through metacognition and the development of critical thinking and comprehension strategies.
- Recognize themselves as learners and citizens capable of accomplishing their academic and professional goals and contributing to the larger community.
- Engage in campus activities, utilize campus resources, and demonstrate the ability to transition to and navigate through academic and professional environments.
- Demonstrate an increase in computer literacy and proficiency in using technology for academic and professional purposes.
- Use interpersonal skills and strategies in a multicultural context to work collaboratively, solve problems, and perform tasks.

# Program Learning Outcomes

## DEVELOPMENTAL STUDIES: WRITTEN COMMUNICATIONS

Upon successful completion of the Developmental Studies Program, students will:

- Use reading and writing processes and adjust them as necessary.
- Acquire, develop, and exchange knowledge through reading and writing.
- Understand, interpret, analyze, and compose written documents.
- Read and write to understand one's own and others' perspectives and cultural contexts.
- Apply student success strategies.

## DEVELOPMENTAL STUDIES: MATH

Students will demonstrate increasing levels of mastery of Program Learning Outcomes throughout the developmental math curriculum. Upon successful completion of the Quantitative Skills requirement for the Associates degree, students will:

- Interpret, analyze and create graphs and charts that communicate quantitative or relational information.
- Determine, create and use appropriate and reasonable mathematic constructs to model, understand and explain phenomena encountered in the world.
- Determine and carry out appropriate algorithms to solve problems that are amenable to mathematical solutions.
- Communicate mathematical information formally, using appropriate math notation and terminology, and informally by using everyday language to express ideas.
- Use technology to analyze and solve mathematical problems and to effectively communicate solutions to problems, particularly those that cannot be solved efficiently by other means.

## ADULT BASIC SKILLS: ENGLISH AS A SECOND LANGUAGE (AESL)

Upon successful completion of the program, the student will be able to:

- Utilize critical thinking, reading, math, written and oral communication skills to transition into employment or higher education.
- Use information technology to identify and locate educational and employment resources.
- Collaborate with persons of diverse cultures, styles and beliefs.

## ENGLISH FOR ACADEMIC PURPOSES

Upon successful completion of the six EAP program levels, students will:

- Speak clearly and fluently enough for an English speaker to understand and interpret intent without difficulty.
- Understand spoken English well enough to participate fully and effectively in academic and personal oral communication.
- Write proficiently in both academic and non-academic modes.
- Read with understanding a variety of academic and other texts.
- Appropriately and responsibly use the technology necessary to function fully as a member of the academic and wider community
- Interact cooperatively with individuals of diverse backgrounds in all of the above areas.

## Developmental Education

TCC's Developmental Education program provides opportunities for students to develop the skills needed to enter college-level courses. Courses are designed so students may begin at their assessed skill levels.

Courses numbered below 100 are offered in mathematics, reading, study skills, grammar, writing and speaking.

For course descriptions, see course lists under the following headings within the Credit Course Descriptions:

- » English
- » Human Development
- » Mathematics
- » Writing Center

Courses numbered below 100 cannot be applied toward TCC certificates or degrees, which require courses numbered 100 or above.

# Basic Education for Adults (BEEdA) Programs

## BEEdA and High School Completion/AESL/I-BEST)

The Basic Education for Adults (BEEdA) department is an affordable and supported pathway to college. BEEdA offers a variety of programs for individuals who wish to improve their basic reading, writing, math, conversation, and employment skills. BEEdA students receive comprehensive career pathway planning and navigation support from Transitional Studies Navigators and Advisors.

Programs include English as a Second Language, Adult Basic Education and High School Completion, vocationally-focused basic skills programs, and programs designed for college bound and Career Training participants.

Successful completion of any of the advanced ABE English courses (ABE 74, 75, 77, 78, or 79) are equivalent to ENGL/ 085 and ABE 94 is equivalent to ENGL/ 095, preparing students to be successful in ENGL& 101 and other college-level courses. Similarly, ABE 85, 90, and 95 are equivalent to the developmental math sequence MATH 85, 90, and 95, preparing students for college-level mathematics courses.

Schedules include both day and evening classes. Students between the ages of 16-19 must obtain formal high school releases. Individuals with F-1, M-1, and J-1 visas are not eligible for federally funded Adult Basic Skills services.

Before enrolling, students are required to attend an information session and complete a skills assessment.

Tuition for Basic Skills classes is \$25 per quarter; some courses may charge additional material fees. Tuition assistance may be available for qualified students through one of our Workforce Education programs.

For more information about class schedules and locations, visit the Basic Skills office in Bldg. 7, call 253-566-5144, or visit our website at [tacomacc.edu/academics-programs/basic-education/](http://tacomacc.edu/academics-programs/basic-education/).

## ABE & GED

ABE courses are designed for adults already proficient in the English language and not enrolled in high school, who wish to improve their basic reading, writing and mathematics skills.

The contextualized courses are designed to provide students an opportunity to earn high school credits towards a HS+ diploma and/or prepare for the high school completion exam (currently Washington State uses the GED®) as well as build the academic habits and skills necessary for successful transition to post-secondary education and the professional world.

## High School Completion for Adults (HS+)

HS+ is a high school completion option with a comprehensive, competency-based approach tailored to adult learning styles. Designed for adult learners who do not have a GED® or high school (HS) diploma, HS+ encourages lifelong learning and prepares students to transition into IBEST programs and further training and education. When adults earn a high school diploma, they are better prepared to enter college-level programs, leading to better skills and family-wage jobs.

### OVERVIEW OF THE PROCESS

Students will meet with an advisor to discuss the student's needs and, when available, to review transcripts. The student will work with the advisor to create a personalized education plan for high school completion and future academic and professional goals.

Students will demonstrate competency in reading, writing, and math in the context of science, history, government, occupational studies, and digital literacy.

Competencies will be demonstrated through ABE courses or through alternative means, such as work, life, and military experience; portfolio; and, high school and college transcripts.

Students will be eligible for the Adult Basic Education tuition rate of \$25 per quarter and class fees.

## Integrated Basic Education and Skills Training (I-BEST) Career Pathway Training

I-BEST Career Pathway training programs are designed for students who wish to improve their English language or basic skills while in HS+, earning college-level certificates, or two-year degrees.

Students in I-BEST programs receive comprehensive wraparound support from navigators and faculty to move further and faster toward their academic and career goals.

In the I-BEST program classes are team taught by one content instructor and one English language or basic skills instructor. Students also receive additional academic support for college courses required for career training certificates, as well as career planning and college navigation support throughout the IBEST program. Each certificate program includes the opportunity to build reading and English skills through developmental levels with the goal of reaching college level by the time the first certificate is earned.

For information on how to enroll for I-BEST programs, visit the Adult Basic Education office, Bldg. 7, or call 253-566-5144.

## IBEST CAREER PATHWAY TRAINING OPTIONS

TCC may offer IBEST training options in the following programs:

- » Certified Nursing Assistant
- » Health Information Technology, Medical Scribe
- » Networking and Cyber Security, Help Desk
- » Emergency Medical Technician
- » Career and College Pathways Academy

# Adult Basic Education

## **ABE 019 Navigating College - ABE/ESL (1-3)**

Students will build the skills to persist through ABE/AESL and successfully transition to college-level courses. Topics may include: educational planning, financial aid, computer literacy skills, time management, information literacy, learning styles, study skills, interpersonal/communication skills, conflict management, and other topics related to college and career success. This course may be offered to special student groups such as High School 21+ (HS21+), Workforce Education, and/or English as a Second Language (AESL).

*Prerequisite: CASAS score below 246 or placement into BEdA Program.*

## **ABE 020 ABE-Educational Interview (1-3)**

The purpose of this class is to orient new students to the ABE/GED programs and resources at the college. In this class, the student will develop educational and personal goals, develop self-awareness and identify strategies and resources that will assist in achieving professional and academic goals.

*Prerequisite: CASAS score under 246 or placement into Basic Skills program.*

## **ABE 045 College Bound Reading and Writing (3-10)**

Students will practice reading, writing, speaking, and listening strategies to increase comprehension, vocabulary, fluency, critical thinking, and academic literacy.

*Prerequisite: ABE writing sample and CASAS score of 236-255 and instructor permission.*

## **ABE 069 HS21+ Portfolio Class (2-8)**

The purpose of this class is to allow students to show high school content area competency and fulfillment of HS21+ graduation requirements through the completion of online independent portfolio assignments. Students will develop educational plans designed around their personal aspirations, develop self-awareness and identify strategies and resources that will assist in achieving professional and academic goals, including transition to college and/or certification and training programs. This competency

based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn high school completion credits.

*HS21+ Transcript Evaluation and minimum CASAS score of 236 or minimum writing sample score of 5.*

## **ABE 070 Reading and Writing for the Sciences: Health Science (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on health science. Possible topics include: nutrition; stress management; fitness; disease prevention and control; drug addiction and recovery; growth and development; and the impacts of environmental, family and cultural factors on health. Laboratories are included. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Lab Science, Science, Health, Contemporary World Issues, English and/or elective credits.

*Prerequisite: ABE 071, ABE 072, ABE 073, ABE 074, ABE 075, ABE 077, ABE 078 or ABE 079 with a minimum grade of C.*

*Minimum CASAS reading score of 211 or minimum writing sample score of 3.*

## **ABE 071 Reading and Writing for Occupational Education (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on occupational education. Students will investigate possible career paths, acquire employability and leadership skills, and develop the technology skills necessary for the workplace. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion occupational education, English, and/or elective credits.

*Prerequisite: ABE 070, ABE 072, ABE 073, ABE 074, ABE 075, ABE 077, ABE 078, or ABE 079 with a minimum grade of C.*

*Minimum CASAS reading score of 211 or minimum writing sample score of 3.*



# Adult Basic Education

## **ABE 072 Reading and Writing for Social Studies: Washington State History (5or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on Washington State History through multicultural perspectives. Students will examine Washington's social, cultural, economic, geographical and political history as well as explore current State issues. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Social Studies (U.S. History), Social Studies (U.S. Government and Civics), English, and/or elective credits.

*Prerequisite: ABE 070, ABE 071, ABE 073, ABE 074, ABE 075, ABE 077, ABE 078 or ABE 079 with a minimum grade of C. Minimum CASAS reading score of 211 or minimum writing sample score of 3.*

## **ABE 073 Reading and Writing for Social Studies: Contemporary World Issues (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on contemporary world issues. Students will examine diverse societies from around the world and explore the major issues that affect our ability to connect and thrive as a global community. Possible topics include: homelessness, poverty, immigration, human rights, and social and economic inequities. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Social Studies (Current World Issue), English, and/or elective credits.

*Prerequisite: ABE 070, ABE 071, ABE 073, ABE 074, ABE 075, ABE 077, ABE 078 or ABE 079 with a minimum grade of C. Minimum CASAS reading score of 211 or minimum writing sample score of 3.*

## **ABE 074 Reading and Writing for the Sciences: Biology (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on biology. Topics include: scientific method and literacy; basic cellular anatomy and biochemical processes; evolution; diversity of life; and ethical issues related to scientific and medical research. Laboratories are included. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Lab Science, Science, Contemporary World Issues, English and/or elective credits.

*Prerequisite: ABE 070, ABE 071, ABE 072, ABE 073, ABE 075, ABE 077, ABE 078 or ABE 079 with a minimum grade of C. Minimum CASAS reading score of 227 or minimum writing sample score of 4.*

## **ABE 075 Reading and Writing for Social Studies: U.S. History (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on United States history through multicultural perspectives. The course includes social and political history and geography providing students with a broad view of America's past and present. Possible course topics include: African-American history, immigrants, women's studies, Native American history, Civil Rights, and major turning points in U.S. history. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Social Studies (U.S. History), Social Studies (U.S. Government and Civics), English and/or elective credits.

*Prerequisite: ABE 070, ABE 071, ABE 072, ABE 073, ABE 074, ABE 077, ABE 078 or ABE 079 with a minimum grade of C. Minimum CASAS reading score of 227 or minimum writing sample score of 4.*

## **ABE 077 Reading and Writing for the Sciences: Environmental Science (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on Environmental Science. Topics include population, ecology, climate change, sustainability and pollution. Students will specifically focus on environmental issues related to the Pacific Northwest. Laboratories and field trips are included. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Lab Science, Science, Contemporary World Issues, English and/or elective credits.

*Prerequisite: ABE 070, ABE 071, ABE 072, ABE 073, ABE 074, ABE 075, ABE 078 or ABE 079 with a minimum grade of C. Minimum CASAS reading score of 227 or minimum writing sample score of 4.*

## **ABE 078 Reading and Writing for Social Studies: World Cultures (5 or 10)**

This theme-based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on World Cultures. Using a comparative approach, students will examine societies from around the world to explore the patterns of human life in areas such as adaptation, economics, family, political organization, healing, and religion as well as explore current issues impacting those societies. By examining different peoples through a cultural anthropologic lens, students will develop a better understanding of the unity and the diversity of humankind. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion English, Social Studies (Current World Issue), and/or elective credits.

*Prerequisite: ABE 070, ABE 071, ABE 072, ABE 073, ABE 074, ABE 075, ABE 077 or ABE 079 with a minimum grade of C. Minimum CASAS reading score of 227 or minimum writing sample score of 4.*

# Adult Basic Education

## **ABE 079 Reading and Writing for Social Studies: US Government and Civics (5 or 10)**

This theme based English course integrates reading, writing, listening, speaking, and critical thinking skills around assignments and activities focusing on United States Government and Civics. Students will learn how our government works and develop a critical understanding of the strengths and weaknesses of the American political system, and their rights and responsibilities as citizens. Includes study of the U.S. Constitution. This competency based class allows students to work at their own pace, exit at a level appropriate to demonstrated skills and knowledge, and earn possible high school completion Social Studies (U.S. History), Social Studies (U.S. Government and Civics), English and/or elective credits.

*Prerequisite:* ABE 070, ABE 071, ABE 072, ABE 073, ABE 074, ABE 075, ABE 077 or ABE 078 with a minimum grade of C. Minimum CASAS reading score of 227 or minimum writing sample score of 4.

## **ABE 082 Applied Math I (5)**

Students will read, write and interpret basic mathematical information using whole numbers, fractions, benchmark percents, and decimals. Students will be introduced to basic patterns, data, algebraic concepts, measurement, geometry and computational skills to solve 1-2 step contextualized real life word problems.

*Prerequisite:* CASAS score of 201-220.

## **ABE 083 Applied Math II (5)**

Students will read, write and interpret mathematical information by applying the operations of whole numbers and extending skills in fractions, decimals and percents. Students will use basic patterns and algebraic thinking including evaluating algebraic expressions and one-two step equations. This course will integrate real life geometry skills including area, perimeter, volume, lines, angles and polygons. Students will interpret contextualized line, bar and circle graphs and measures of central tendency.

*Prerequisite:* ABE 082 with a minimum grade of C or CASAS score of 221-229.

## **ABE 084 Pre-Algebra (5)**

Students will read, write and interpret mathematical information by extending previous knowledge of whole numbers, fractions, decimals and percents in an algebraic context. Students will apply ratios and proportions to algebraic word problems. Students will extend algebraic thinking including signed numbers, order of operations, evaluating algebraic expressions and solving one-three step equations. This course will integrate real life geometry skills including area, perimeter, volume, lines, angles, Pythagorean Theorem, circles, cylinders and polygons by applying algebraic formulas.

*Prerequisite:* ABE 083 with a minimum grade of C or CASAS score of 230-235.

## **ABE 085 Introduction to Elementary Algebra (5)**

This is a beginning algebra course specifically designed for students with pre-algebra background. Topics include variables and signed numbers, solutions to linear equations and inequalities, simplification of algebraic expressions, evaluation and manipulation of formulas, an emphasis on word problems, coordinate geometry, graphing of linear equations, and scatterplots. Scientific calculator required.

*Prerequisite:* ABE 084 with a minimum grade of C; or ACCUPLACER at MATH 085; or math CASAS score of 236-245; and ENGL/085 with a minimum grade of C; or ABE 074, ABE 075, ABE 077, ABE 078 or ABE 079 with a minimum grade of C; or ACCUPLACER at ENGL/085; or reading CASAS score of 227 or above. *Co-Requisite:* ENGL/085; or ABE 074; or ABE 075; or ABE 077; or ABE 078; or ABE 079.

## **ABE 090 Elementary Algebra (5)**

In this course students will progress in algebraic and geometric concepts through contextualized, integrated curriculum. Topics will include linear equations, polynomials, factoring, rational expressions, and graphing. Scientific calculator required. Students completing this course with a C or better will meet the requirements for HS 21+ to earn 1 credit of high school math equivalency.

*Prerequisite:* ABE 068 with a minimum grade of B- or ABE 085 or MATH 085 with

a minimum grade of C or ACCUPLACER placement of Math 90; and either ABE 075, ABE 074, ABE 077, ABE 078 or ABE 079 with a minimum grade of B- or ENGL/085 with a minimum grade of C.

## **ABE 094 Academic Reading and Writing II: Threshold (5-10)**

An integrated pre-college course designed to improve the student's reading and writing ability for entrance into ENGL& 101. Course work focuses on critical reading and analytical writing in response to readings, with an emphasis on organization, unity, coherence, and adequate development; an introduction to expository essays; and a review of the rules and conventions of standard written English. Essay and research writing is included. This is a preparatory class for college success with reading emphasis on text analysis for structure, inferring meaning, critical thinking, and vocabulary development. Introduction to literary devices is included. HS21+ students may have the opportunity to earn HS credit based on the contextualized theme of the course. The criteria to earn a specific content credit will be clearly outlined in the syllabus and align with the HS21+ credit earning process.

*Prerequisite:* ABE 074, ABE 075, ABE 077, ABE 078 or ABE 079 with a minimum grade of C; or ENGL/085 with a minimum grade of C; or placement in ENGL/095.

## **ABE 095 Intermediate Algebra (5)**

Topics include introduction to functions; linear, quadratic, exponential and logarithmic functions and their applications; systems of linear equations and inequalities and their applications; rational exponents and radicals.

*Prerequisite:* ACCUPLACER placement of MATH 095; or ABE 090 with a minimum grade of C or MATH 090 with a minimum grade of C; and ENGL/085 with a minimum grade of C; or ABE 074 with a minimum grade of B- or ABE 075 with a minimum grade of B- or ABE 077 with a minimum grade of B- or ABE 078 with a minimum grade of B- or ABE 079 with a minimum grade of B- or ACCUPLACER at ENGL/085.

# Adult English as a Second Language

Adult Basic Skills English as a Second Language classes are offered to help immigrants and refugees develop communication skills, function effectively in jobs, pursue a higher degree, and participate as members of the community.

I-BEST, EAP and ABE courses offer multiple pathways for AESL students to transition into college and career training. The ESL Career Pathway navigator will work with students to find the best path forward.

## **AESL 020 ESL - Educational Interview (1-3)**

The purpose of this class is to orient new students to the ABE/ESL programs and resources at the college. In this class, the student will develop educational and personal goals, develop self-awareness and identify strategies and resources that will assist in achieving professional and academic goals.  
*Prerequisite: CASAS score under 235 or placement into basic skills program.*

## **AESL 011 Integrated ESL - Level 1 (1-15)**

ESL - Level 1 is designed for students with little or no knowledge of the English language. Students will learn English skills for basic survival needs. Basic reading, writing, speaking and listening skills will be covered.  
*Prerequisite: CASAS score of 180 or below.*

## **AESL 012 Integrated ESL - Level 2 (1-15)**

ESL - Level 2 is designed for students with very basic knowledge of the English language. Students will learn English skills for basic every day activities in the community. Students will begin to develop reading, writing, speaking and listening skills necessary to participate in family, community, and employment related activities.

*Prerequisite: CASAS score of 181-190 and/or AESL 011 with a minimum grade of B-.*

## **AESL 013 Integrated ESL - Level 3 (1-15)**

Integrated AESL - Level 3 is designed for students with an intermediate level of English language skills. Students will study real-life materials on familiar subjects related to family, citizen/community or worker roles. Students

will begin to focus on more complex reading, writing, speaking and listening skills, and apply these skills to a variety of life situations.

*Prerequisite: CASAS score of 191-200 or AESL 012 with a minimum grade of B-.*

## **AESL 014 Integrated ESL - Level 4 (1-15)**

Integrated AESL - Level 4 is designed for students with a high intermediate level of English language skills. Students will learn to listen actively and participate in conversations about every day activities and subjects. In addition, students will continue to read more complex material including descriptions and narratives. Students will begin to convey ideas through writing and learn to edit their own work.

*Prerequisite: CASAS score of 201-210 and/or AESL 013 with a minimum grade of B-.*

## **AESL 015 Integrated ESL - Level 5 (1-15)**

Integrated ESL - Level 5 is designed for students with an advanced level of English language skills. Students will learn to actively participate in conversations related to every day activities, work and social situations. Students will practice reading and interpreting real life materials including charts, graphs and tables. Students will learn to convey complex ideas in writing and complete lengthy forms and applications. Students will craft their work on critical thinking skills such as separating fact from opinion, drawing conclusions and predicting outcomes.

*Prerequisite: CASAS score of 211-220 or AESL 014 with a minimum grade of B-.*

## **AESL 016 Integrated ESL - Level 6 (1-5)**

Integrated ESL - Level 6 is designed for students with high advanced levels of English language skills. Students will learn to participate independently in complex conversations and organize and relay information effectively. Students will learn to monitor comprehension when reading difficult materials and write using complex grammatical structures.

*Prerequisite: CASAS score of 221-235 and/or AESL 015 with a minimum grade of B-.*

## **AESL 031 ESL Speaking & Listening Level 1 (3-10)**

Students will learn to use and understand basic words and phrases related to personal information and basic communication needs. Students will learn to answer and ask very basic questions, use basic non verbal cues and ask for clarification when needed.

*Prerequisite: CASAS score of 180 or below.*

## **AESL 032 ESL Speaking & Listening Level 2 (3-10)**

Students will learn to use and understand short sentences related to personal information. Instruction will focus on basic comprehension and pronunciation and students will learn to use and understand simple strategies to relay information such as gestures, eye contact and requesting feedback.

*Prerequisite: Completion of AESL 031 and/or CASAS score of 181-190.*

## **AESL 033 ESL Speaking & Listening Level 3 (3-10)**

Student will begin to use and understand basic grammar and sentence structure in communication related to everyday topics and personal experiences. Students will continue to work on pronunciation and will begin to participate in short conversations, give instructions, and gather missing information.

*Prerequisite: Completion of AESL 032 and/or CASAS score of 191-200.*

## **AESL 034 ESL Speaking & Listening Level 4 (3-10)**

Students will learn to communicate with little support in familiar and unfamiliar settings. Instruction will focus on improving pronunciation, managing more complex conversations, explanations, instructions, and narratives.

*Prerequisite: Completion of AESL 033 and/or CASAS score of 201-210.*

## **AESL 035 ESL Speaking & Listening Level 5 (3-10)**

Students will learn to communicate fluently and accurately in familiar and unfamiliar settings. Instruction will focus on fine tuning pronunciation, building more complex vocabulary, improving comprehension, and using more complex communication strategies.

*Prerequisite: Completion of AESL 034 and/or CASAS score of 211-220.*

# Adult English as a Second Language

## **AESL 036 ESL Speaking & Listening Level 6 (3-10)**

Students will learn to use a broad range of vocabulary and registers as well as understand most details in conversations, short lectures, news reports and extended explanations. Instruction will focus on building complex conversation skills as well as developing strategies for repairing gaps in communication. *Prerequisite: Completion of AESL 035 and/or CASAS score of 221-235.*

## **AESL 071 Integrated ESL - Level 1A (3-15)**

Designed for students who have no background in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar and technology to meet their basic needs.

*Prerequisite: AESL 072 and Permission Code; or CASAS reading score of 180 or below, CASAS Listening score of 180 or below, and Permission Code; or Writing Sample at Level 1 and Permission Code.*

## **AESL 072 Integrated ESL - Level 1B (3-15)**

Designed for students with little or no knowledge of the English language. Students will acquire knowledge and demonstrate skills in listening, speaking, reading, writing, grammar and technology to meet their basic needs.

*Prerequisite: AESL 071 and Permission Code; or CASAS reading score of 180 or below, CASAS Listening score of 180 or below, and Permission Code; or Writing Sample at Level 1 and Permission Code.*

## **AESL 073 Integrated ESL - Level 2A (3-15)**

Designed for students at the low-beginning level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar and technology skills. to become college and career ready.

*Prerequisite: AESL 071 and AESL 072 with a minimum grade of C and Permission Code; or CASAS reading score of 181-190, CASAS Listening score of 181-189, Writing Sample at Level 2 or higher, and Permission Code.*

## **AESL 074 Integrated ESL - Level 2B (3-15)**

Designed for students at the low-beginning level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar and technology skills to become college and career ready.

*Prerequisite: AESL 071 and AESL 072 with a minimum grade of C and Permission Code; or CASAS reading score of 181-190, CASAS Listening score of 181-189, Writing Sample at Level 2 or higher, and Permission Code.*

## **AESL 075 Integrated ESL - Level 3A (3-15)**

Designed for students at the high-beginning level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 073 and AESL 074 with a minimum grade of C and Permission Code; or CASAS Reading score of 191-200, CASAS Listening score of 190-199, Writing Sample at Level 3 or higher, and Permission Code.*

## **AESL 076 Integrated ESL - Level 3B (3-15)**

Designed for students at the high-beginning level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 073 and AESL 074 with a minimum grade of C and Permission Code; or CASAS reading score of 191-200, CASAS Listening score of 190-199, Writing Sample at Level 3 or higher, and Permission Code.*

## **AESL 077 Integrated ESL - Level 4A (3-15)**

Designed for students at the low-intermediate level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 075 and AESL 076 with a minimum grade of C and Permission Code; or CASAS Reading score of 201-210, CASAS Listening score of 200-209, Writing Sample at Level 4 or higher, and Permission Code.*

## **AESL 078 Integrated ESL - Level 4B (3-15)**

Designed for students at the low-intermediate level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 075 and AESL 076 with a minimum grade of C and Permission Code; or CASAS Reading score of 201-210, CASAS Listening score of 200-209, Writing Sample at Level 4 or higher, and Permission Code.*

## **AESL 081 Integrated ESL - Level 5A (3-15)**

Designed for students at the high-intermediate level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 077 and AESL 078 with a minimum grade of C and Permission Code; or CASAS Reading score of 211-220, CASAS Listening score of 210-218, Writing Sample at Level 5 or higher, and Permission Code.*

## **AESL 082 Integrated ESL - Level 5B (3-15)**

Designed for students at the high-intermediate level in the English language. Students will acquire knowledge and demonstrate skills in speaking, listening, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 077 and AESL 078 with a minimum grade of C and Permission Code; or CASAS Reading score of 211-220, CASAS Listening score of 210-218, Writing Sample at Level 5 or higher, and Permission Code.*

## **AESL 083 Integrated ESL - Level 6A (3-15)**

Designed for students at the advanced level in the English language. Students will acquire knowledge and demonstrate skills in listening, speaking, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 081 and AESL 082 with a minimum grade of C and Permission Code; or CASAS reading score of 221-235, CASAS Listening score of 219-227, Writing Sample at Level 6 or higher, and Permission code.*

# English for Academic Purposes (EAP)

## **AESL 084 Integrated ESL - Level 6B (3-15)**

Designed for students at the advanced level in the English language. Students will acquire knowledge and demonstrate skills in listening, speaking, reading, writing, grammar, critical thinking, and technology to become college and career ready.

*Prerequisite: AESL 081 and AESL 082 with a minimum grade of C and Permission Code; or CASAS reading score of 221-235, CASAS Listening score of 219-227, Writing Sample at Level 6 or higher, and Permission code.*

English for Academic Purposes is an intensive program for speakers of other languages who wish to gain English and academic skills necessary to succeed in college-level content classes.

The EAP program does not require TOEFL scores. International students must take the EAP placement test before registering for EAP classes. Resident students must either complete or test out of AESL Level 6 before registering for EAP classes.

The EAP program provides six levels, introductory through advanced, of instruction in Reading/Writing, Grammar/Speaking, Conversation/Pronunciation, and American Culture. Advanced EAP classes apply as non-distribution elective credits toward TCC's Associate Degree. Students can also take certain other college classes while completing advanced EAP classes. The following EAP courses are offered:

## **CONVERSATION AND PRONUNCIATION**

### **EAP 088 Introduction to Pronunciation and Conversation (3)**

An introductory-level course in conversation and pronunciation for entry-level speakers of other languages. Students are introduced to the pronunciation of basic English sounds and intonation patterns, contextualized and practiced in short, simple conversations.

*Prerequisite: EAP placement exam.*

### **EAP 089 Pronunciation and Conversation I (3)**

A beginning-level course in conversation and pronunciation for speakers of other languages. Students are introduced to the pronunciation of specific English sounds and basic intonation patterns, contextualized and practiced in conversation.

*Prerequisite: EAP placement exam.*

### **EAP 090 Pronunciation and Conversation II (2)**

A course in pronunciation and conversation for speakers of other languages at the advanced-beginning or low-intermediate level. While developing conversational fluency, students improve their pronunciation of both the specific sounds and the intonation patterns of English. Some practice in note-taking is also included.

*Prerequisite: EAP 089 with a grade of C or higher, or EAP placement exam.*

### **EAP 191 Pronunciation & Conversation III (2)**

Instruction and practice in recognition and production of individual phonemes of American English and of word accent and intonation levels at the high intermediate-advanced level. Students participate in a variety of speech activities: speech giving, poetry reading, role playing, debating.

*Prerequisite: EAP 090 or EAP 093 with a minimum grade of C; or EAP placement exam.*

### **EAP 193 Pronunciation & Conversation IV – Advanced (2)**

An advanced course in English pronunciation and conversation for speakers of other languages. Students practice recognition and pronunciation of individual phonemes of American English as well as word stress and sentence-level intonation patterns. This course includes a variety of speech activities such as speech giving, debating, role playing, and individual and panel presentations

*Prerequisite: EAP 191 with a minimum grade of C or instructor permission.*

# English for Academic Purposes (EAP)

## CULTURE AND CONVERSATION

### EAP 190 American Culture & Conversation – High Intermediate (3)

A course in conversational English focused on contemporary American culture for speakers of other languages at the high-intermediate or advanced level. Students explore current issues in American life through readings, videos, and conversation. This course may be taken twice for credit.

*Prerequisite:* EAP 090 or EAP 093 with a minimum grade of C; or EAP placement exam.

### EAP 194 American Culture and Conversation II – Advanced (3)

A course in conversational English focused on contemporary American culture for speakers of other languages at the advanced level. Students explore current issues in American life through readings, videos, conversation, and interviews.

*Prerequisite:* EAP 190 with a minimum grade of C or instructor permission.

## GRAMMAR AND SPEAKING

### EAP 091 Grammar and Speaking I (5)

The first in a series of five grammar and speaking courses for speakers of other languages. The course is designed to introduce students to basic English grammar and speaking skills.

*Prerequisite:* EAP 085 with a minimum grade of C; or EAP placement exam.

### EAP 092 Grammar and Speaking II (5)

The second in a series of five grammar and speaking courses for speakers of other languages at the advanced-beginner level. This course is designed to give students a strong grammatical basis in English and to improve their speaking and listening skills. At least one oral report is required.

*Prerequisite:* EAP 095 with a minimum grade of C; or EAP placement exam.

### EAP 093 Grammar and Speaking III (5)

The third in a series of five grammar and speaking classes for speakers of other languages at the low-intermediate level. The focus is on grammar usage with work on the comprehension of spoken English.

*Prerequisite:* EAP 092 with a grade of C or higher, or EAP placement exam.

### EAP 094 Grammar and Speaking IV (5)

The fourth in a series of five grammar and speaking classes for speakers of other languages at the high intermediate level. The class focuses on grammar plus classroom discussion and reports.

*Prerequisite:* EAP 093 with a grade of C or higher, or EAP placement exam.

### EAP 155 Grammar and Speaking V (5)

The last in a series of five grammar and speaking courses for speakers of other languages at the advanced level. The course focuses on areas of English grammar that present difficulties to advanced students of the language; aural comprehension, speaking skills, and vocabulary development are also included.

*Prerequisite:* EAP 094 with a grade of C or higher, or EAP placement exam.

## READING AND WRITING

### EAP 085 Introduction to Reading, Writing and Grammar (15)

Beginning-level contextualized reading, writing, and grammar class for speakers of other languages. Students learn basic reading, spelling, and sentence structure, and are introduced to the writing process through a series of project-based activities.

*Prerequisite:* EAP placement exam.

### EAP 095 Reading, Writing, & Grammar I (15)

Beginning-level contextualized reading, writing, and grammar class for speakers of other languages. Students learn the basics of sentence structure and the writing process through a series of project-based activities. Reading and grammar activities provide support for the writing projects and develop students' reading comprehension and vocabulary as they progress from writing simple sentences to single narrative paragraphs.

*Prerequisite:* EAP 085 with a minimum grade of C; or EAP placement exam.

### EAP 096 Reading and Writing II (10)

The second in a series of five reading and writing courses for speakers of other languages. Students are introduced to the writing process as they progress from sentences to one-paragraph compositions. Reading assignments provide support for the writing projects while improving students' reading comprehension, speed and vocabulary.

*Prerequisite:* EAP 095 with a grade of C or higher, or EAP placement exam.

### EAP 097 Reading and Writing III (10)

The third in a series of five reading and writing courses for speakers of other languages. Students practice the writing process of short narrative, descriptive and summary compositions. Grammar and mechanics are practiced in the context of writing assignments. Reading lessons support writing activities and build reading comprehension, retention, and vocabulary.

*Prerequisite:* EAP 096 with a minimum grade of C or EAP placement exam.

# English for Academic Purposes (EAP)

## **EAP 098 Reading and Writing IV (8)**

The fourth in a series of five reading and writing courses for speakers of other languages. Students progress from one-paragraph to multiple-paragraph compositions, focusing on the writing process for persuasive, descriptive, narrative, and expository essays. Readings provide background for compositions while building students' vocabulary, comprehension, and retention.

*Prerequisite: EAP 097 with a grade of C or higher, or EAP placement exam.*

## **EAP 159 Reading and Writing V (7)**

The last in a series of five reading and writing courses for speakers of other languages, designed to prepare advanced students for composition classes with domestic speakers. Focuses on multiple-paragraph essays, stressing revising and polishing skills. Readings provide background for the writing component, with emphasis on comprehension, speed, retention, and vocabulary.

*Prerequisite: EAP 098 with a grade of C or higher, or EAP placement exam.*

## **CONTEXTUALIZED READING, WRITING AND GRAMMAR**

### **EAP 087 Level 3 Reading/Writing/Grammar (15)**

Synthesizes skills taught in EAP 97 and EAP 93 in the context of a variety of introductory-level transfer or professional/technical courses, introducing students to the reading and writing skills necessary for college success. Coursework focuses on the writing process of short narrative and descriptive compositions. Grammar and mechanics are practiced in the context of writing assignments. Reading lessons support writing activities and build reading comprehension, retention, and vocabulary.

*Prerequisite: EAP 096 with a minimum grade of C or EAP placement exam.*

### **EAP 099 High Intermediate EAP Composition and Reading (10)**

EAP 99 synthesizes skills taught in EAP 98 and 94 in the context of a variety of introductory-level transfer or professional/technical courses, introducing students to the reading and writing skills necessary for college success. Coursework moves from one-paragraph to multiple-paragraph compositions, focusing on the writing process for persuasive, descriptive, narrative, and expository essays while also working on sentence-level issues. Readings provide background for compositions; support learning in the content course; and build students' vocabulary, comprehension, and retention.

*Prerequisite: EAP placement exam or EAP 097 with a minimum grade of C and EAP 093 with a minimum grade of C.*

### **EAP 154 Advanced Composition and Reading (10)**

EAP-154 synthesizes skills taught in EAP-155 and EAP-159 in the context of a variety of transfer or professional technical courses, helping students build the reading and writing skills necessary for success in these courses. Course work focuses on increasing reading speed, comprehension, and retention; and gaining mastery of the essay writing process and editing/polishing skills.

*Prerequisite: Either completion of EAP 094 and EAP 098 with minimum grade of C, or completion of EAP 099 with a minimum grade of C, or EAP placement exam.*

## **SPECIAL PROGRAMS READING/WRITING**

*Note: These courses are linked with a transfer-level course in business, humanities, or social sciences.*

### **EAP 100 Special Programs Reading/Writing I (5)**

A high-intermediate reading and writing course for students in special short-term Study Abroad programs. Students practice the writing process of short narrative, descriptive, and summary compositions. Grammar and mechanics are practiced in the context of writing assignments. Reading lessons support writing activities and build reading comprehension, retention, and vocabulary.

*Prerequisite: Membership in an approved Study Abroad program.*

### **EAP 101 Special Programs Reading/Writing II (5)**

An advanced reading and writing course for non-native English speaking students in special short-term Study Abroad programs. Designed to prepare advanced students for humanities or social sciences classes with domestic students. Focuses on multiple-page essays, stressing revising and polishing skills. Reading provides background for the writing component, with emphasis on comprehension, speed, retention, and vocabulary.

*Prerequisite: Membership in an approved Study Abroad program.*

# TCC Corporate Education

## Customized Training

Invista designs and tailors classes to fit the culture and values of business clients. Popular courses include:

### Computer Literacy

- » Microsoft Office Suite
- » Computer Literacy
- » Database Management

### Customer Service

#### Academy

- » Interpersonal Communications
- » Customer Service
- » Attitude in the Workplace
- » Ethics and Values
- » Stress and Time Management
- » Conflict Resolution
- » Decision Making

### Leadership

- » Frontline Leadership
- » Leading Change
- » Succession and Transition Planning
- » Building a Culture of Trust
- » Retaining Talent
- » Influential Leadership

### Productivity Improvement

- » Project Management
- » Supply Chain Management
- » Six Sigma
- » Lean Kaizen
- » ISO

### Supervision and Management

- » First-time Supervisor
- » Managing Change
- » Motivating Employees
- » Managing Difficult Employees
- » Effective Delegation
- » Performance Coaching

### Workplace Skills

- » Communication Skills
- » Conflict Resolution
- » Team Building
- » Problem Solving
- » Diversity Training
- » Command Spanish

Tacoma Community College is a member of Invista Performance Solutions, a partnership of four regional colleges dedicated to providing high quality workforce training. Invista provides customized solutions for corporate training and education, including:

- Leadership & Management
- Communication Skills
- Core Business Skills
- Software & IT Training
- Process Improvement
- Industrial & Technical Skills

### Performance Consulting

Invista provides performance consultants and industry experts who can develop and deliver targeted training and performance coaching that will positively impact your business.

### Prior Learning Assessment

Invista staff can guide and support your staff as they explore higher education options. Many adult workers have years of work experience but have earned little college credit. Invista works with employees to document and transfer life and work experience into college credits.

### Transcribing for College Credit

Invista offers customized training programs for college credit.

For more information visit [www.invistaperforms.org](http://www.invistaperforms.org) or call 253-583-8860.



# TCC Continuing Education

## Personal Enrichment Classes

Stretch your mind and satisfy your curiosity with our affordable and convenient non-credit classes.

Fun, knowledgeable, supportive and inspiring instructors share their love of subjects like:

- Arts and creativity
- Business and technology
- Health, home, and leisure
- Humanities and science
- Personal planning
- Professional development

The **Harbor Institute** is designed by and for adults interested in wide-ranging scholarly topics such as:

- History
- Languages
- Current events
- Genealogy
- Politics
- Geography
- The Environment

### Write in the Harbor

The annual Write in the Harbor regional conference for writers is held each November at the Gig Harbor Campus. The conference, ongoing writing classes and workshops, and writing discussion groups, help to nurture and support a truly talented and dedicated cohort of regional writers and editors as well as show beginning writers a path forward.

### Harbor Women Wellness Weekend

The annual Harbor Women Wellness Weekend is held in spring at the Gig Harbor Campus. The weekend offers inspiring and informative lectures, writing, creative arts, and movement.

## Job Skills and Career Training

Continuing Ed has courses that:

- Help you to grow your business including business planning, marketing, and finance.
- Develop your own skills or upgrade the skills of your employees to excel in today's fast-paced work environment.

Continuing Ed has classes for individuals seeking professional certification, or CEUs and Clock Hours, to achieve or maintain licensure in professional fields, including:

- Flagging and Traffic Control Certification
- Alcohol/drug Information School - Training for Trainers (ADIS-TOT)
- Emergency Care Basisc (CPR) Certification
- Forklift Operator Certification
- Building exceptional presentation skills

Many CE classes can also satisfy CEUs and Clock Hours for continuing professional education.

## Online Non-credit Classes

You can also take online classes from the comfort of your own home or office at times most convenient for you. There are hundreds of classes to choose from. Find your classes at [www.ed2go.com/tccdtc](http://www.ed2go.com/tccdtc).

See the full schedule and register online at [continuingedtacomacoma.com](http://continuingedtacomacoma.com)

# TCC Credit Course Descriptions

## Course Category Index

Courses at TCC are organized into institutional divisions or categories, each including a related group of subjects. Subject areas and course descriptions in this section of the catalog are listed in alphabetical order for the convenience of readers. Students wishing to learn more about certain courses are urged to talk about those courses with the chair of the division or department through which those courses are offered.

Accounting, p. 168	Engineering, p. 192	Music, p. 214
Anthropology, p. 169	English: Composition, p. 194	Nursing, p. 216
Art, p. 170	English: Literature, p. 195	Nutrition, p. 220
Astronomy, p. 173	Environmental Science, p. 196	Oceanography, p. 221
Biology, p. 173	Experiential Learning, p. 197	Paralegal, p. 221
Botany, p. 175	Fresh Start, p. 197	Philosophy, p. 224
Business, p. 175	Geography, p. 197	Physical Education, p. 224
Chemistry, p. 179	Geology, p. 198	Physics, p. 226
Chinese, p. 180	German, p. 198	Political Science, p. 227
Communication Studies, p. 181	Health Information Management, p. 199	Psychology, p. 228
Community Health Professional, p. 181	Health Information Technology, p. 200	Radiologic Science, p. 229
Community Health Paramedicine, p. 183	History, p. 203	Respiratory Therapy, p. 231
Community Health Resp. Care, p. 184	Human Development, p. 204	Science, p. 234
Computer Science, p. 184	Humanities, p. 205	Social Science, p. 234
Computer User, p. 184	Human Services, p. 206	Sociology, p. 234
Diagnostic Medical Sonography, p. 186	Information Technology, p. 208	Spanish, p. 235
Early Childhood Education, p. 188	Japanese, p. 210	Supervision & Management, p. 236
Economics, p. 190	Library Science, p. 211	Writing Center, p. 237
Education, p. 190	Logistics, p. 211	
Emerg. Med. & Health Services, p. 191	Mathematics, p. 211	

On the following pages are descriptions of the course offerings of Tacoma Community College. The specific courses to be offered each quarter will be announced in the online class schedules, which are posted quarterly at the college website.

Courses numbered 1-99 are pre-college-level courses designed to develop skills needed for college work and career training courses. They cannot be applied towards certificate or degree requirements.

Courses numbered 100-299 are college-level courses. They meet the requirements of the Associate of Arts and Associate of Science degrees as well as the Associate in Applied Sciences, and Associate in General Studies degrees conferred by TCC. These courses are normally accepted for transfer by four-year colleges and universities in Washington state when they are part of an Associate of Arts or Associate of Science degree. Students who transfer without one of the approved transfer degrees should not take for granted the transferability of all 100-level or 200-level classes since some of them are vocational courses and apply toward the Applied Sciences degree only.

Courses numbered 299 are reserved for special projects. Such projects are undertaken by individual students upon arrangement with an instructor and the chair of the division in which the course is offered. Credit granted for courses numbered 299 varies with the individual project.

Normally, one credit is given for one 50-minute period of class per week per quarter for lecture classes. Laboratory sections generally require two hours of class per week per quarter for each credit. Credits earned for successfully completing each course are shown in parentheses following the course titles in this section of the catalog.

For current course offerings, check the online class schedule or consult the appropriate division administrator. Class availability is dependent on adequate enrollment.

### **Common Course Numbering**

The Washington Community and Technical College system has adopted common course numbers, prefixes and titles for courses that are equivalent at many two-year colleges. These changes went into effect summer quarter 2008.

The courses and their descriptions have not changed, just the course number and, in some cases, the prefix and/or title. The changes apply to both common courses and non-common courses.

Common courses are identified by an "&" character at the end of the prefix, for example ENGL& or ANTH&. Presence or absence of an "&" character on a course does not influence transferability of the course to other academic institutions.

### **Developmental Courses**

There have been some program-wide course changes with broad significance that we alert you to here. The developmental courses have been re-organized for clarity. See English and Math sections for detailed description of courses and prerequisites.

## Accounting

### **ACCT 101 Practical Accounting I (5)**

Introduces students to basic accounting concepts and procedures, emphasizing sole proprietors. Topics include analysis of business transactions and completion of the accounting cycle, including preparation of financial statements. Students will be introduced to computers.

*Prerequisite:* MATH 085 with a minimum grade of C or placement at MATH 090 or higher. *Recommended:* READ 095 and concurrent or prior enrollment in CU 103 or CU 105.

### **ACCT 145 Payroll and Business Taxes (5)**

Reviews state and federal laws and regulations on payroll computations, deductions and other business taxes.

*Prerequisite:* BUS 110 with a minimum grade of C or Math 147; and ACCT& 201 with a minimum grade of C or instructor permission.

### **ACCT 165 Accounting with Sage (5)**

Introduction to automated accounting methods using Sage. Sage is used to examine the complete accounting cycle. The course focuses on technical skills behind the screens and soft skills needed in an accounting department.

*Prerequisite:* CU 103 or CU 105; and either ACCT& 201 or instructor permission.

### **ACCT 175 Accounting with QuickBooks (5)**

Introduction to automated accounting methods using QuickBooks. QuickBooks is used to examine the complete accounting cycle. Includes analysis, demonstration, exporting, importing and hands-on experience using the general ledger, accounts payable, accounts receivable and payroll modules.

*Prerequisite:* ACCT& 201 with a minimum grade of C or instructor permission.

*Recommended Preparation:* ACCT 165.

### **ACCT& 201 Principles of Accounting I (5)**

(Formerly ACCNT 210) Emphasis is on the development and interpretation of financial statements: the balance sheet, income statement and the statement of equity.

*Prerequisite:* ACCT 101 or MATH 095 with a minimum grade of C or equivalent; or assessment above MATH 095 or MATH 094 with a minimum grade of C.

### **ACCT& 202 Principles of Accounting II (5)**

(Formerly ACCNT 220) ACCT& 202 is a continuation of ACCT& 201. Introduces accounting for long-term debt and investments. Examines the measuring and reporting of Stockholders' Equity and consolidated statements. Re-emphasizes the preparation of the Statement of Cash Flows. Introduction to methods used to interpret financial statements.

*Prerequisite:* ACCT& 201 with a minimum grade of C.

### **ACCT& 203 Principles of Accounting III (5)**

(Formerly ACCNT 230) Introduction to cost concepts such as cost-volume-profit analysis and the budgeting process. Examines methods to determine product costs of a manufacturing business and the methods employed to control costs, such as the use of the standard cost system.

*Prerequisite:* ACCT& 201 with a minimum grade of C.

### **ACCT 250 Federal Income Tax (5)**

Federal income tax for the layman, accounting student, working accountant/bookkeeper and small business owner, with special emphasis on tax issues affecting individuals.

*Prerequisite:* ACCT 101 or ACCT& 201 with a minimum grade of C- or instructor permission.

### **ACCT 290 Work Internship (5)**

During one quarter of the sophomore year, students can receive college credits for hands-on accounting work experience and training in a private or public sector organization.

*Prerequisite:* Program Chair permission.

### **ACCT 299 Independent Study & Special Projects (1)**

Study on an individual basis.

*Prerequisite:* Program Chair permission.

# Anthropology

## **ANTH& 100 Survey of Anthropology (5)**

(Formerly ANTHR-100) A survey of the subfields of physical anthropology, archaeology, anthropological linguistics and sociocultural anthropology through the examination of selected problems in human biological and cultural evolution. An introduction to the discipline of anthropology that asks what it means to be human. (multicultural content)

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

## **ANTH& 204 Archaeology (5)**

(Formerly ANTHR-205) Introduction to the study of the prehistory of humankind as revealed by material remains. Covers excavation techniques, analyzing and dating artifacts, and a survey of world prehistory from the beginning of culture to the appearance of writing.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## **ANTH& 205 Biological Anthropology (5)**

(Formerly ANTHR-201) Study of the origins and adaptations of the human species. An examination of the fossil record and living populations of monkeys, apes and humans.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## **ANTH& 206 Cultural Anthropology (5)**

(Formerly ANTHR-202) An analysis of the social and cultural variation of humankind. Comparison of how various western and non-western peoples live. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## **ANTH& 207 Linguistic Anthropology (5)**

(Formerly ANTHR-203) Introduction to linguistic methods and theories used within anthropology. Topics include the structure of language, anatomy and evolution of language, the relationship between language and culture, the study of language variation and of language change. The linguistic database in the course is both historical and cross-cultural. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## **ANTH& 210 Indians of North America (5)**

(Formerly ANTHR-210) An examination of the diversity of cultures among the Indians of North America, this course is an ethnographic survey of Native American societies before European contact and includes discussion of contemporary issues. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## **ANTH 220 Ethnographies of American Cultures (5)**

(Formerly ANTHR-207) This course focuses on the diversity of cultural perspectives within the United States. In-depth examinations of two or more cultures will include exploring the ways in which people from minority cultural perspectives cope with some of the central ideals and expectations of the dominant culture. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment; and completion of one of the following: ANTH& 100 or ANTH& 206 or ANTH& 207 or ANTH& 210 or SOC& 101.*

## **ANTH& 237 Human Osteology (5)**

(Formerly ANTHR-280) An introduction to the comparative study of human and other mammalian skeletons as used for identification in forensic and biological anthropology. The course explores various methods of identifying human skeletons (from others) including bone form, age, sex, and state at death. Other topics include dental analyses, bone formation, and preservation.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*  
*Recommended: ANTH& 205 or BIOL& 100 or BIOL& 175.*

## **ANTH& 245 Primatology (5)**

(Formerly ANTHR-270) Examines the origins and evolutionary trends of primates, from modern relationships to growth, development, and behavioral adaptations. Course also covers primate ecology and conservation. Uses lectures, multimedia, and readings to compare and contrast the major groups of non-human primates and consider their relationships to humans. Course will provide perspective on the status of endangered species with whom we may share a future as well as a past. Field trips included.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

*Recommended: ANTH& 205 or BIOL& 100.*

## **ANTH 299 Independent Study (1-5)**

A variable credit (1-5) course based on independent study contracted between an instructor and a student. The independent study will provide students an opportunity to pursue an anthropological area of interest in depth beyond what regular courses can provide. The emphasis may be field research, scholarly research, or a combination.

*Prerequisite: ANTH& 100 with a minimum grade of B+, Instructor permission and a written contract between the instructor, student and instructional administrator, describing the nature and method of the independent study.*

## Art

The following courses are designed for students who wish to explore one or more areas of art. They are beginning studio courses and have no prerequisites.

- ART 102 Two-Dimensional Design
- ART 103 Three-Dimensional Design
- ART 105 Beginning Drawing
- ART 110 Beginning Graphic Design
- ART 131 Beginning Ceramics
- ART 140 Beginning Photography
- ART 147 Introduction to Digital Photography
- ART 150 Beginning Printmaking
- ART 156 Beginning Painting
- ART 172 Beginning Sculpture

A total of 22 ART credits may be used for distribution credit for the Associate of Arts degree.

- 5 ART Studio credits for Humanities
- 5 ART Appreciation credits for multicultural/humanities
- 12 ART lecture or studio credits for Distribution Electives

An additional 15 ART lecture or studio credits can be used for college-level electives.

Students who are interested in an art-related vocation should initially concentrate on basic design and drawing courses (ART 102, 103, 105). These form the foundation for the advanced art courses offered at TCC. Some of the courses listed in the catalog are offered on a limited basis once a year, every other year, etc. Contact the Art Department for help in planning your program. Students who plan to transfer should check the requirements of the college or university of their choice.

In painting, drawing and sculpture courses, the human form is a subject of study. The human model, sometimes in the nude, may be incorporated into these studies. Any student enrolled in one of these courses who may object, for whatever reason, to study of the nude model may arrange for optional studies with the instructor of that course.

*The college reserves the right to temporarily retain for exhibit or photographing any student work submitted for credit.*

### ART& 100 Art Appreciation (5)

(Formerly ART-100) An introduction to understanding and appreciating the visual arts (fine arts, crafts, architecture, and new media) from a global perspective. Designed for non-art majors. A variety of learning approaches include lectures, slides, videos, guest artists, field trips, demonstrations, and hands-on participation. (multicultural content)

### ART 102 Two-Dimensional Design (5)

The organization of visual elements (line, shape, texture, color) as applied in a variety of two-dimensional design media. Recommend prior to Graphic Design, Photography, and Painting classes. Performance/skills course.

### ART 103 Three-Dimensional Design (5)

Using a series of progressive projects, involving wood, wire, and paper, students will learn the basic elements and principles of design and apply them to three-dimensional space. Organization of visual design elements will be applied to a variety of construction processes to create aesthetically pleasing sculptural designs. Performance/skills course.

### ART 105 Beginning Drawing (5)

Foundation in drawing from observation. Emphasis on composition, perspective, and form through various drawing techniques and media. Performance/skills course.

### ART 106 Advanced Drawing (5)

Further development of drawing skills with emphasis on composition, new media, and visual communication concepts. Performance/skills course.

*Prerequisite: ART 105.*

### ART 110 Beginning Graphic Design (5)

An introduction to a visual structure concept using two-dimensional design. The beginning course will cover composition, color theory, typography and layout. Computer technology will be used to explore the use of these design elements as required for specific projects with traditional methods to communicate the practical design form. Performance/skills course.

### ART 111 Intermediate Graphic Design (5)

An intermediate course furthering understanding of visual structure using concepts of two-dimensional design. This course will cover intermediate concepts in composition, color theory, typography and layout. Computer technology will be used to create design elements as required for specific projects with traditional methods to communicate the design form. Performance/skills course.

*Prerequisite: ART 110*

### ART 131 Beginning Ceramics (5)

Introduction to creating ceramic forms using hand-building and wheel-throwing techniques. Student will learn the basic forming methods employed in making ceramic forms, and basic glazing and decorating techniques will be covered. Performance/skills course.

*Recommended: ART 102, ART 103 and ART 105.*

### ART 132 Intermediate Ceramics I (5)

An intermediate course creating ceramic forms using hand-building and wheel-throwing techniques. Student will learn the intermediate forming methods employed in making ceramic forms, glazing and decorating techniques will be covered. Performance/skills course.

*Prerequisite: ART 131. Recommended: ART 102, ART 103 and ART 105.*

### ART 133 Intermediate Ceramics II (5)

Further development of ceramic techniques: hand-built and/or wheel-thrown forming techniques, more advanced glazing and decorative techniques. Theory and practice in kiln loading and firing will be covered as part of ART-133. Performance/skills course.

*Prerequisite: ART 132 and ART 102, or ART 103, or ART 105. Recommended: ART 102, ART 103 and ART 105.*

## Art

### **ART 146 Beginning Photography (5)**

Basic black & white photography. Includes 35mm camera operation, film developing, and printing. Attention to the creative process from the conception of the idea to the completion of the image, as well as the aesthetics of composition, lighting, and presentation. Assigned projects provide ample range for personal expression while being devoted to exploring photographic processes.

A 35mmSLR type film camera is required and students will be required to purchase black and white film, photographic printing paper, along with additional supplies. Performance/skills course.

### **ART 147 Introduction to Digital Photography (5)**

This course is designed to introduce students to the use of digital cameras, and the use of computers to create prints of images from their cameras. Students learn to use digital tools and techniques to create and manipulate visual images. Students need a digital camera, or film camera (35mm or medium format) capable of being operated in a manual exposure mode. Performance/skills course.

### **ART 150 Beginning Printmaking (5)**

Studies in traditional and contemporary print processes including relief, etching, and lithographic methods. Historical and contemporary print developments serve as background material for technical application. Performance/skills course.

### **ART 151 Advanced Printmaking (5)**

Expanding basic procedures learned in ART-150 with emphasis on new media, materials, and technique. A continuing study of historical and cultural roles of printmaking with attention to individual artistic contributions. Performance/skills course.  
*Prerequisite: ART 150.*

### **ART 156 Beginning Painting (5)**

Introductory course exploring the principles of representational painting, compositional aesthetics, and painting techniques. Lectures include introductions to new projects with examples of student work and art historical references. Demonstrations cover composition, perspective, color theory, and technique. Performance/skills course.

### **ART 157 Intermediate Painting (5)**

Further investigation of painting techniques, color theory, composition, and representational painting from observation from Art 156, Beginning Painting. Content will be explored through a series of assignments which expand on art vocabulary/terminology, visual content, and symbolism. Performance/skills course.

*Prerequisite: ART 156.*

### **ART 158 Advanced Painting (5)**

Further investigation of painting techniques, color, composition, and representation painting covered in Art 156/157, Beginning and Intermediate Painting. In addition, abstraction will be explored through mixed media. Content will be explored through a series of assignments which expand on visual concepts, media exploration, and self-expression. Performance/skills course.

*Prerequisite: ART 157.*

### **ART 161 Life Studies: Figure Drawing (3)**

Drawing from the posed model, clothed and nude. Emphasis is on expressive composition, accurate proportion/foreshortening, and investigation of a variety of drawing media. Performance/skills course.

### **ART 172 Beginning Sculpture (5)**

A diversity of materials and creative processes will be explored to develop an expressive sculptural form, such as: assemblage, modeling, carving, and casting. Emphasis will focus on creativity, developing technical skills and conceptual themes. Assigned projects will enable students to develop expressive sculptural techniques and to learn the use of materials and tools in the making of sculpture. Performance/skills course.

*Recommended: ART 102, ART 103 and ART 105.*

### **ART 173 Intermediate Sculpture I (5)**

A diversity of materials and technical processes to develop the sculptural form, such as: assemblage, modeling, carving, casting, and fabrication, will be examined. Emphasis will focus on developing conceptual themes. Assigned projects will enable students to develop fabrication techniques and to learn the use of materials in the making of sculpture. Further experience in sculpture design, materials, techniques, tools and approaches. Performance/skills course.

*Prerequisite: ART 172. Recommended: ART 102, ART 103 and ART 105.*

### **ART 174 Intermediate Sculpture II (5)**

Further experience in sculpture design, materials, techniques, tools and approaches. Performance/skills course.

*Prerequisite: ART 173 and Recommended: ART 102, ART 103, and ART 105.*

### **ART 180 Art for Elementary Education (5)**

The course is designed for prospective K-6 educators as a lecture/workshop structured to provide students an opportunity to explore materials and techniques suitable for classroom use. Imaginative art experiences and the nature of creativity are stressed and linked to other disciplines. Includes planning and assessment components directed at art education.

### **ART 199 Gallery Viewing Lab (1)**

Recommended as a concurrent enrollment with any art class, or HUM& 101, 116, 117, 118. ART 199 supplements these mentioned courses and is designed as a "viewing lab" where students can develop their visual vocabulary, sharpen their critical thinking skills, and apply the concepts taught in Art and Humanities classes. Students will visit local galleries and museums, attend or view lectures, and write a series of short reports. May be taken a total of three times. Graded S/U. Note: This class is a self-paced field experience course. Two meetings with instructor are required: Meeting #1 in the first two weeks of the quarter; Meeting #2 at mid-quarter.

*Recommended: Concurrent enrollment in any ART course or in HUM& 101, HUM& 116, HUM& 117 or HUM& 118.*

## Art

### **ART 201 History of Western Art: Ancient (5)**

An introductory survey of Western art's foundation and early development.

Art and architecture are covered from Prehistoric times through the ancient Middle East, Egyptian, Aegean, Greek, Etruscan, Roman, Early Christian, and Byzantine periods. Emphasis is given to historical and cultural contexts.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### **ART 202 History of Western Art: Medieval & Renaissance (5)**

An introductory survey of Western art from approximately 400-1600 AD. From the Late Antique world's legacy, painting, sculpture, architecture, and crafts are covered from Germanic and Celtic tribes through the Carolingians and Medieval Romanesque and Gothic periods, on to Italian and Northern Renaissance art, and ending with the Mannerists.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### **ART 203 History of Western Art: Baroque through Modern (5)**

An overview of the influences on, and development of, Western art, architecture, and craft from 1600 AD to the present. Follows Baroque and Rococo through the French Revolution to the emergence of Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism. Twentieth-century and later art is studied in the context of global diversity.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### **ART 210 Color and Design (5)**

Exploration of color theory for advanced studies in two-dimensional media. Emphasis will be on analysis in regard to color perception, color relationships, and the use of color in historical art works.

*Prerequisite:* ART 102.

### **ART 231 Low-fire Ceramics (5)**

Students will explore the possibilities available in low-fire ceramics. Traditional forms such as Majolica and burnished earthenware will be used as well as nontraditional styles. The ART

230 series is taught as a series of ceramic design courses offering experience in both hand-building and throwing on the wheel in a sequence of increasing involvement and difficulty. Art 231, 232, and 233 are not sequential and may be taken in any order. Performance/Skills course.

*Prerequisite:* ART 133 and either ART 102, or ART 103 or ART 105 or instructor permission.

### **ART 232 Surface Embellishment and Form Alteration (5)**

Course work will concentrate on the alteration of forms and the various techniques for surface textures. The student should be competent in the ability to make basic shapes to use on the techniques assigned. The ART-230 series is taught as a series of ceramic design courses offering experience in both hand-building and throwing on the wheel in a sequence of increasing involvement and difficulty. Art 231, 232, and 233 are not sequential and may be taken in any order. Performance/skills course.

*Prerequisite:* ART 133 and either ART 102, ART 103 or ART 105 or instructor permission.

### **ART 233 Ceramics Master Study (5)**

In this course, each student will research an artist or a type or style of ceramics, and from that research attempt to make replicas of that work. After the initial series of works, the student will use the research work to create a new direction using the masterwork as a starting point. Art 231, 232, and 233 are not sequential and may be taken in any order. Performance/skills course.

*Prerequisite:* ART 133 and either ART 102, ART 103 or ART 105 or instructor permission.

### **ART 246 Intermediate Photography (5)**

Second quarter of black & white photography with emphasis on seeing, composition, presentation and advanced techniques. Refinements of camera and metering operation, development and printing techniques, darkroom manipulation, toning, coloring and alternative processes. Students must have an adjustable 35mm SLR camera and must provide film, printing paper and other supplies. Performance/skills course.

*Prerequisite:* ART 146 or instructor permission.

### **ART 247 Intermediate Digital Photography (5)**

This course will provide students with intermediate instruction in the use of digital and/or film cameras, and the use of computers to create prints of captured images from their images. Students learn to use digital tools and techniques to create and manipulate visual images. Students need a digital camera or film camera (35mm or medium format) capable of being operated in a manual exposure mode. Performance/skills course.

*Prerequisite:* ART 147 with a minimum grade of C.

### **ART 272 Sculpture: Modeling, Moldmaking and Casting (5)**

Basic experience in direct modeling, assemblage and found objects and mold construction of these objects. Various traditional and non-traditional casting mediums will be explored. Developing conceptual themes for art, as well as learning technical skills and processes, will be emphasized. Performance/skills course.

*Prerequisite:* ART 174. *Recommended:* ART 102, ART 103 and ART 105.

### **ART 273 Sculpture: Carving of Stone, Wood, and Plaster (5)**

Introduction to power tools, hand tools, techniques, and materials used in the carving of wood, stone, plaster and cement to create sculptural forms. Design and craftsmanship will be emphasized. Performance/skills course.

*Prerequisite:* ART 174. *Recommended:* ART 102, ART 103 and ART 105.

### **ART 274 Sculpture: Fabrication Techniques of Wood and Metal (5)**

Introduction to building abstract sculptural forms through the use of a variety of materials, techniques and fabrication processes. Joinery, assemblage, welding and other processes where materials are joined will be covered. Emphasis will focus on technical skills and developing conceptual themes for your projects. Performance/skills course.

*Prerequisite:* ART 174. *Recommended:* ART 102, ART 103 and ART 105.



## Art

### **ART 275 Sculpture: Metal Casting: Iron, Bronze, and Aluminum (5)**

Emphasis on pattern fabrication, wax manipulation, model and mold making, and foundry procedures for casting metals through piece-molds and the lost-wax method. Projects will help develop expressive conceptual themes while examining certain technical foundry processes. Performance/skills course.

*Prerequisite:* ART 174. *Recommended:* ART 102, ART 103 and ART 105.

### **ART 296 Special Projects in Art (2)**

This course involves special group efforts which grow out of departmental need or artistic opportunity. The course will be offered as each art project is identified. The number of participants would be limited by the nature of the project, and involvement would be subject to the applicant's background coursework and the instructor's approval. Performance/skills course.

*Prerequisite:* Instructor permission.

### **ART 297 Folio Preparation (2)**

Students will prepare a portfolio for application to a transfer institution. Students will be advised regarding their selections of samples, revisions and skill areas that need further attention. Students will learn to photograph samples, mat and frame appropriate pieces, develop directed projects to improve the overall quality and finalize a professional portfolio.

*Prerequisite:* Students must claim their intent to major in art and must have completed two of the three following courses: ART 102, ART 103, or ART 105. Instructor permission required.

### **ART 299 Special Problems in Art (1-5)**

These courses are an extension of existing course sequences and are subject to the same fees as the individual courses within the sequence chosen. All 299 classes require permission of the instructor.

*Prerequisite:* Prerequisite to registration for any 299 class is the satisfactory completion of the entire course sequence offered by the department in that particular medium.

## Astronomy

Students intending to major in Astronomy at a baccalaureate institution should work towards an Associate of Science degree with an Astronomy/Physics Specialization.

### **ASTR& 110 The Solar System (5)**

Study of the structure and composition of the Solar System. Topics discussed include the history of Astronomy, the appearance of the nighttime sky, orbital motion, gravity, the nature of light, theories of Solar System formation, and the characteristics of the planets, moons, asteroids, and comets that inhabit the Solar System. Laboratory included.

*Prerequisite:* ENGL/ 095 and MATH 090 or MATH 093 with a minimum grade of C or equivalent.

### **ASTR& 115 Stars, Galaxies and the Cosmos (5)**

Study of the structure and composition of the universe including stars and galaxies. Topics discussed include the theories of the formation of stars, galaxies, and the universe; the nature of light and telescopes; the characteristics of the Sun; the cycle of star formation, life and death; the types of stars and galaxies; and the application of physical principles to making astronomical measurements. Laboratory included.

*Prerequisite:* ENGL/ 095 and MATH 090 or MATH 093 with a minimum grade of C or equivalent.

## Biology

Students seeking courses for general interest or natural sciences distribution requirements should consider the following non-major courses:

BIOL& 100, BIOL 105, BIOL 125, BIOL 140, BIOL& 175, BOT 101, ENVS& 101, NUTR& 101 or SCI 105.

Students interested in majoring in biology or related disciplines should work toward either an Associate of Science degree with a Biology Specialization or an Associate of Arts in Biology. An academic advisor should be consulted to determine the appropriate courses for your degree goal.

### **BIOL& 100 Survey of Biology (5)**

An introduction to biological principles. Topics include: scientific method; scientific literacy; basic cellular anatomy and biochemical processes; evolution and genetics; diversity of life; and ecology and environmental issues. Laboratory included.

*Prerequisite:* ENGL/ 095 with a minimum grade of C; and either MATH 090 or MATH 093 with a minimum grade of C; or equivalent assessment in these areas.

### **BIOL 105 Fossils and the History of Life (5)**

Introduction to the geological and biological processes and events that generated the amazing record of life on earth. Topics include plate tectonics, rocks, fossilization processes, principles of evolution, and a survey of the history of life. Lab includes studying rock and fossil specimens and involves field trips. This course is the same as GEOL 108. Students may receive credit for either BIOL 105 or GEOL 108, but not both.

*Prerequisite:* ENGL/ 095 with a minimum grade of C and completion of MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.

## Biology

### **BIOL 125 Biology in the Field (5)**

An intensive introductory course covering the fundamental principles governing biological assemblages from the species level to communities, as exemplified by the different ecosystems found in the Pacific Northwest. Laboratory activities include learning select biological field methods. Extended field trip(s) required; exact itinerary varies quarterly. *Prerequisite: ENGL/ 095 with a minimum grade of C; and either MATH 090 or MATH 093 with a minimum grade of C; or equivalent assessment in these areas.*

### **BIOL 140 Marine Biology (5)**

Introductory marine biology designed for non-majors. Learn how marine organisms are categorized, about their habitats, how they survive, their ecological relationships, and environmental concerns. Laboratories and field trips included. *Prerequisite: ENGL/ 095 with a minimum grade of C and completion of MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **BIOL& 160 General Cell Biology (5)**

(Formerly BIOL 111) An introductory cell biology course for students preparing for health professions. Major concepts of cell biology will be introduced, including the chemistry of life, the structure, reproduction, and metabolism of cells, genetics, and evolutionary biology. Lab included. *Prerequisite: ENGL/ 095 with a minimum grade of C; and completion of MATH 090 or MATH 093 with a minimum grade of C; or equivalent assessment in these areas.*  
*Recommended Preparation: High School Chemistry; or Introductory-level College Chemistry course.*

### **BIOL& 175 Human Biology w/Lab (5)**

(Formerly BIOL 118) This course is a one-quarter class of human anatomy and physiology. This course offers a brief overview of the human body for the non-science major. It covers some basics of chemistry and cells and then outlines all the major systems of the human body. Laboratory included. *Prerequisite: ENGL/ 095; and either MATH 090 or MATH 093; or BUS 110 with a minimum grade of C or equivalent.*

### **BIOL 179 Special Topics in Biology (2)**

This topic course will explore one varying topic in biology. The specific biological topic will be explored using a variety of methods which may include lectures, discussions, seminars, research projects, field work, laboratory work, or all-day to overnight field trips. Example topics include: genetics, conservation biology, the history of life, or other current topics in biology. *Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent.*

### **BIOL& 221 Introduction to Evolution, Ecology and Biodiversity (5)**

(Formerly BIOL 210) Introduction to the evolutionary and ecological processes involved in the generation of our planet's biodiversity, including review of patterns and processes that influence the origin, evolution, distribution and abundance of living things. First of a three-quarter sequence (BIOL& 221, 222, 223) designed for science majors. Laboratory included. *Prerequisite: CHEM& 161 with a minimum grade of C (may be taken concurrently) and BIOL& 160 with a minimum grade of C.*

### **BIOL& 222 Introduction to Cellular and Molecular Biology (5)**

(Formerly BIOL 211) Introduction to the structures and functions of biological molecules; anatomy of prokaryotic and eukaryotic cells; cell metabolism and metabolic diversity; molecular genetics and genomics. Laboratory included. *Prerequisite: CHEM& 161 and BIOL& 221 with a minimum grade of C.*

### **BIOL& 223 Introduction to the Biology of Organisms (5)**

(Formerly BIOL 212) Introduction to the structures and functions of eukaryotic organisms with particular attention to animal and plant anatomy, physiology, and development. Laboratory included. *Prerequisite: BIOL& 222 and CHEM& 162 with a minimum grade of C.*

### **BIOL& 241 Human Anatomy & Physiology 1 (5)**

(Formerly BIOL 220) The first quarter of a standard two quarter sequence in human anatomy and physiology. The course reviews basic molecular and cell biology. New material covers histology, the integumentary system, the skeletal system, the muscular system, the nervous system and the special senses. Laboratory sessions include the study of microscopy, histology, anatomical models, preserved bones and human cadavers. *Prerequisite: BIOL& 160 with a minimum grade of C; and either CHEM& 121 or CHEM& 140 with a minimum grade of C.*

### **BIOL& 242 Human Anatomy & Physiology 2 (5)**

(Formerly BIOL 221) The second quarter of a standard two quarter sequence in human anatomy and physiology. The course will examine the endocrine system, blood, the cardiovascular system, the lymphatic system, the immune system, the respiratory system, the digestive system, the urinary system, and the reproductive system. Laboratory sessions include the study of histology, anatomical models, and the human cadaver. *Prerequisite: BIOL& 241 with a minimum grade of C.*

### **BIOL 243 Current Advances in Human Anatomy and Physiology (5)**

An optional third quarter of human anatomy and physiology. This class will examine human biology through the in-depth exploration of selected disease processes and the analysis of current scientific advances related to their diagnosis and treatment. Students will review the major organ systems and examine homeostatic feedback loops, anatomical and physiological relationships between the different systems, and the relationship between anatomy and physiology in selected body structures from an evidence-based perspective. Laboratory sessions include histology, study of anatomy using models and the human cadaver, and physiology experiments. *Prerequisite: BIOL& 242 or BIOL& 223 with a minimum grade of C.*

## Biology

### **BIOL& 260 General Microbiology (5)**

(Formerly BIOL 201) An introduction to the study of microbiology including microbial structures, metabolism, genetics, classification, pathogenesis, and host defense. The emphasis is on human bacterial and viral pathogens. Laboratory included.

*Prerequisite:* CHEM& 121 with a minimum grade of C (or higher level chemistry course with a minimum grade of C); and either BIOL& 160 or BIOL& 222 with a minimum grade of C.  
*Recommended Preparation:* CHEM& 131.

### **BIOL 280 Human Cadaver Prosection (2)**

(Formerly BIOL 260) This is a two-credit laboratory dissection course. Students will dissect a human cadaver to include removal of skin and superficial fascia, isolation of selected muscles, and opening of thoracic and abdomino-pelvic cavities. Students will also participate in the annual Surgical Demonstration event and present selected surgical procedures to the public.

*Prerequisite:* BIOL& 241 with a minimum grade of C and instructor recommendation; and instructor permission.

### **BIOL 294 Biology Research (1-5)**

Students will work as part of a research team on a specific research project for the quarter. The course will involve either laboratory or field study depending on the project, evaluation of primary research papers relevant to the project, and presentation of project results.

*Prerequisite:* BIOL& 221, BIOL& 222, BIOL& 242 or BIOL& 260 with a minimum grade of C or equivalent.

## Botany

### **BOT 101 General Botany (5)**

Presents basic concepts of plant biology to non-science majors including plant characteristics, biodiversity, growth, reproduction, and ecology. Students discuss current topics in agriculture, horticulture, medicine, ethnobotany, biotechnology, ecology, conservation, and environmental issues. Labs include lab experiments, greenhouse projects, field trips, and habitat restoration work in the TCC Nature Area.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent.

### **BOT 179 Special Topics in Botany (2)**

This course will explore various topics in plant biology using a variety of methods, including seminars, laboratory experiments, lectures, research projects, presentations, field work, and all-day or overnight field trips depending on the quarter offered. Topics will vary by quarter. A course may include topics such as ethnobotany, plant taxonomy, etc.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent.

## Business

### **BUS& 101 Introduction to Business (5)**

(Formerly BUS-101) For both business and non-business majors. Dynamics and competitive business world are explored through the study of topics including economic systems, forms of business ownership, social responsibility and ethics, entrepreneurship, marketing, management, organizational design, finance, banking, and securities markets.

*Prerequisite:* ENGL 095 and READ 095 or ENGL/ 095 or instructor permission.

### **BUS 102 Customer Service (2)**

Students will learn the skills necessary to provide quality customer service of the 21st century in any workplace environment. The course will focus on improving verbal, non-verbal and listening skills; adopting a positive attitude; using effective techniques for handling difficult customers; recognizing ethical behavior and decisions; practicing professional communication etiquette and understanding the multicultural aspects of customer service in the global marketplace.

### **BUS 110 Business Math (5)**

This course is a review of mathematical computations using fractions, decimals, percentages, and proportions as well as introductory algebra. The focus is on their application to personal finance and business situations with the emphasis on decision-making and problem-solving. Topics may include credit cards, bank reconciliation, foreign currency exchange, discounts, taxes, payroll, installment buying, mortgages, depreciation and interest.

*Prerequisite:* MATH 085 with a minimum grade of C.

### **BUS 140 Marketing and Business Development (5)**

Examines marketing fundamentals and their impact on business and society. Students will study the concepts of consumer needs, demand management, customer behavior, strategies in product development, promotion, advertising, sales and distribution systems.

*Prerequisite:* ENGL 095 and READ 095 or ENGL/ 095 or instructor permission.

## Business

### **BUS 150 Global Business (5)**

This course examines international business topics including globalization and the outsourcing of jobs; differences in cultures and political, economic, legal, and social systems; international ethics; the international monetary system; multinational corporations; methods of entering offshore markets; global production, logistics and marketing; and international trade organizations. (multicultural content) (writing intensive)

*Prerequisite: ENGL 095 and READ 095 or ENGL/095 or instructor permission.*

### **BUS 160 Small Business Entrepreneurship (5)**

A practical course concentrating on successfully launching and managing a small business, achieving optimum benefits from limited resources, planning for growth and succession, and developing skills, qualities, and traits that complement entrepreneurial behavior. Students will write a business plan that supports their future entrepreneurial efforts.

*Prerequisite: ENGL/095 with a minimum grade of C or equivalent or instructor permission. Recommended preparation: knowledge of CU 100 and HD 101.*

### **BUS 163 Management Principles and Organizational Systems (5)**

Basic theory and common terms of management. Course examines what management is, who managers are, what they do, how they differ from non-managers, and how management contributes to an organization's success.

*Prerequisite: ENGL 095 and READ 095 or ENGL/095 or instructor permission.*

### **BUS 164 Leadership and Human Relations (5)**

Applies human relations skills to the work world. Focuses on interpersonal leadership skills that can maximize cooperation, flexibility, sensitivity and teamwork among workers. Students examine how attitudes, values, needs and communication styles affect relationships at work. Small-group projects will practice leadership skills and evaluate individual interpersonal competence.

*Prerequisite: ENGL 095 and READ 095 or ENGL/095 or instructor permission.*

### **BUS 165 Human Resource Management (3)**

Explores how organizations obtain, retain, and effectively utilize human resources.

Topics include workplace diversity, forming quality work teams, equal opportunity, work analysis, staffing, training and development, performance appraisals, compensation, union/management relations, and grievance procedures.

*Prerequisite: ENGL 095 and READ 095 or ENGL/095 or instructor permission.*

### **BUS& 201 Business Law (5)**

(Formerly BUS-200) An introduction to the American legal system and the functions of law in a business environment; legal reasoning and the process of resolving disputes in society; a preliminary analysis of contractual arrangements and business association in the business community.

### **BUS 232 Introduction to Project Management (5)**

This course will introduce students to the fundamentals of project management including understanding a project's life cycle, setting priorities and expectations, controlling expenses and reporting results. Students will examine the various roles, environments and techniques of planning, evaluation, and control.

*Prerequisite: CU 105 with a minimum grade of C or equivalent. Recommended: CU 100 with a minimum grade of C or equivalent.*

### **BUS 256 Statistical Analysis (5)**

Statistical techniques to be used in guiding business decisions. Introduction to descriptive techniques, probability, estimation, hypothesis testing, regression, correlation and related concepts.

*Prerequisite: MATH 095 with a minimum grade of C or equivalent.*

### **BUS 257 Social Media for Business (3)**

This course is designed to provide students with foundational skills to use social media tools and strategies so that they can immediately apply them in the workplace.

*Prerequisite: CU 105 with a minimum grade of C or Program Chair permission. Recommended: CU 101.*

### **BUS 260 Small Business Operations (5)**

Students will acquire key skills and knowledge focused on small business administration, customer relations, marketing and sales, technology utilization, and leading a small organization. The course is a balance between acquiring topic knowledge and gaining key supporting skills through in-class practice and demonstration. Furthermore, student learning is enhanced through teamwork and interacting with the local business community.

*Prerequisite: BUS 160 and ENGL& 101 with a minimum grade of C.*

*Recommended Preparation: BUS 140 and BUS 257 with a minimum grade of C.*

### **BUS 280 Career Readiness Skills (2)**

This course covers employment search skills and the employee skills needed to be successful on the job. It is recommended preparation for internships: ACCT-290, BUS-290, and IT-290.

### **BUS 290 Work Internship (5)**

During one quarter of the sophomore year, students may receive college credits for hands-on work experience and training in a private - or public - sector organization.

*Prerequisite: Program Chair permission.*

### **BUS 295 Entrepreneurial and Innovative Mindset (5)**

This course is for students who want to learn more about innovation, entrepreneurship and launching a venture. The class will introduce the principles of an entrepreneurial mindset. The characteristics of the entrepreneurial mindset will be dissected and applied to the student's own entrepreneurial potential. Additionally, students will examine needed technical skills including business, finance, marketing, legal issues, and social media. This course is the same as SOC 295.

*Prerequisite: Instructor permission.*

### **BUS 299 Independent Study (1)**

Study on an individual basis.

*Prerequisite: Program Chair permission.*

## Business

### **BUS 300 Foundations of Management Theory and Practice (3)**

This course covers a broad overview of the foundations of management and leadership from a theoretical and practical perspective. It focuses on integrating theory into higher level critical thinking allowing students to apply theory to real world business problems. Topics will include terminology, strategies and techniques to manage and lead, leadership, motivation, team building, change, group dynamics, power and conflict.

*Prerequisite: Acceptance into AM BAS.*

*Corequisite: LS 301*

### **BUS 310 Organizational and Interpersonal Behavior (5)**

This course covers managing relationships within an organization. It relates theory and research to organizational problems by reviewing advanced concepts in motivation and perception, leadership, decision-making, communication and influence, group behavior, conflict and cooperation, politics, corporate culture, organizational structure and environmental influences. Students will gain practical experience in managing teams, resolving conflict, and building professional and effective relationships.

*Prerequisite: Acceptance into AM BAS.*

### **BUS 320 Managerial Accounting (5)**

This course covers the basic principles of financial and managerial accounting, including analyzing balance sheets, income statements, cash flow statements, financial analysis, and budgetary control systems. Students also will gain skills in reporting, planning, coordinating, and monitoring organizational performance.

*Prerequisite: BUS 300 and MATH 136 or MATH&146 or BUS 256 with a minimum grade of C and CU 203 with a minimum grade of B or Microsoft Office Specialist Excel Core Level certification.*

### **BUS 330 Legal Environments in Business (5)**

This course covers the state and federal laws that affect management behavior and organizational practices, including contracts, business organizations, employment law, product liability, safety issues, and environmental regulations. The focus will be placed on how to manage employees

and other relationships legally and ethically. Emphasis will be placed in preventative law as well as strategies to resolve workplace conflict without litigation.

*Prerequisite: BUS& 201 and BUS 300 with a minimum grade of C.*

### **BUS 340 Financial Management (5)**

This course covers financial management principles with a focus on corporations and the concepts associated with allocation of scarce resources across assets over time. Students will learn how managers interface with accounting and finance departments, meet financial objectives, and make decisions. Students will utilize spreadsheets and other analytical methods to study issues and problems related to corporate finance. Topics will include sources and sequencing of financing as a business develops, assessing and forecasting, managing short and long term capital needs, and evaluating the financial plan in relationship to the stated business plan.

*Prerequisite: BUS 320 with a minimum grade of C.*

### **BUS 350 Fundamentals of Project Management (5)**

This course covers project management methods and delves into topics covered in the Comptia study guide. This course will prepare students to manage projects from start to finish within any organizational structure. The course features practice in each of the project phases as students learn how to strategically apply project management tools and techniques to help organizations achieve their goals.

*Prerequisite: BUS 300 with a minimum grade of C.*

### **BUS 360 Fundamentals of Human Resources Management (5)**

This course provides the tools to create a highly skilled and diversified workforce by implementing effective strategies and best practices for planning, recruiting, selecting and maintaining within the scope of organizational goals. Special emphasis will be placed on creating a diversified workforce within an ethical and inclusive organization.

*Prerequisite: BUS 300 with a minimum grade of C.*

### **BUS 400 Economics for Managers (5)**

This course covers issues in microeconomics, macroeconomics, and global economics.

Topics include allocation of resources, economic systems, economic institutions and incentives, market structures and prices, and productivity. This course also includes issues related to the global marketplace and globalization, aggregate supply and demand, and governmental policy towards business.

*Prerequisite: BUS 300 and MATH 136 or MATH& 146 or BUS 256 with a minimum grade of C.*

### **BUS 410 Operations and Logistics (5)**

This course covers the concepts related to the physical movement and storage of goods, such as raw materials, semi-finished and finished goods, and associated managerial activities that are important for effective control. Students will apply the concepts of total quality Management (TQM), Just in Time (JIT), forecasting, inventory theory and supply chain management. This course will also cover the importance of interrelationships between logistics, production, marketing, financial management, and quality control.

*Prerequisite: BUS 300 and BUS 320 with a minimum grade of C.*

### **BUS 420 Digital and Social Media Management (5)**

This course covers the connection between business objectives and social media strategy, platforms, and tactics. The primary focus of this course, is to understand how marketing activities can be implemented online and via social media to reach target customers and strategic objectives.

*Prerequisite: BUS 330 with a minimum grade of C.*

## Business

### **BUS 430 Business Strategy and Sustainability (5)**

This course covers an overview of business strategy concepts, tools, and techniques to build and operate a sustainable organization. The course will integrate sustainable development and environmentalism concepts with business management strategy to achieve corporate social responsibility. Students will learn about the ecological and economic benefits of sustainability and 'green' practices. *Prerequisite: BUS 300 and BUS 330 with a minimum grade of C. Recommended preparation: ENVS& 101 with a minimum grade of C.*

### **BUS 441 Intermediate Project Management (5)**

This course covers the behavioral and technical aspects of managing projects. The course will explore various approaches for effectively managing team dynamics, project planning, monitoring, and controlling activities. Students gain insight into project leadership and team management. The goal is to prepare students with the necessary knowledge related to effective project team management as well as project cost, quality, and performance in order to satisfy the business objectives and successfully manage the implementation of a project. Project management software will be used to support the implementation of a project. Students will prepare a project plan at an intermediate level of difficulty. *Prerequisite: BUS 350 with a minimum grade of C.*

### **BUS 442 Intermediate Human Resource Management (5)**

This course focuses on enlarging the competencies of a workforce through training and professional development using adult learning theories and best practices for training. The course also covers compensation and benefit systems using a Total Rewards approach integrating tangible and intangible rewards. *Prerequisite: BUS 360 with a minimum grade of C.*

### **BUS 443 Entrepreneurial Leadership (5)**

This course covers the foundational knowledge and competencies involved in leading and developing entrepreneurial ventures. Both socially-conscious and profit enterprises are researched and explained with

an analysis comparing and contrasting these similar, yet different businesses. Students also define problems that each type of venture solves and how the solution supports local, regional, and even global communities. *Prerequisite: BUS 300 and BUS 330 with a minimum grade of C.*

### **BUS 451 Advanced Project Management (5)**

This course covers advanced project management topics necessary for implementation of and excellence in project management. The course will provide a framework for approaching, evaluating, and implementing project risk and quality management in order to obtain optimal project results by identifying and applying relevant quality management tools, activities, and methods for achieving systemic quality management and quality improvement across all phases of the project life cycle. The course will also explore agile project management methodologies. Best practices in the management of international projects, human resource management, risk management, project leadership, quality and communications management will be explored and discussed. *Prerequisite: BUS 441 with a minimum grade of C.*

### **BUS 452 Advanced Human Resource Management (5)**

This course focuses on the legal and regulatory framework surrounding employment locally, nationally and globally. Students will become familiar with law and regulations pertaining to compensation, employee relations, job safety and health, equal employment opportunity, leave and benefits and other protection laws. Topics will also include labor relations. *Prerequisite: BUS 442 with a minimum grade of C.*

### **BUS 453 Advanced Entrepreneurial Leadership (5)**

This course covers more advanced knowledge and competency in leading and developing entrepreneurial ventures. The second specialization course supports students selecting either a socio-cultural or a profit enterprise to design, develop and present. Teams work together thinking critically

regarding socio-economic problems and potential solutions. Each team designs a new problem-solving business model supporting customer-driven needs. Students begin networking with other entrepreneurs, small business owners, and other like-minded professionals.

*Prerequisite: BUS 443 with a minimum grade of C.*

### **BUS 461 Capstone: Managing for Organizational Change (4-5)**

This culminating course is the capstone for students with studies concentrated in project management. It includes an in-depth investigation of the forces driving organizational change and their impact on people and structure. The course focuses on developing leadership and change capabilities at all levels in an organization. Students will examine the techniques of organizational design and development with emphasis on the methods of planned change to ensure improved effectiveness of organizations in a changing external environment. A planned approach to managing all phases of the organizational change process is emphasized. *Prerequisite: BUS 451 with a minimum grade of C.*

### **BUS 462 Capstone: Human Resource Management (4-5)**

This culminating course is the capstone course for students with studies concentrated in human resource management. Students will evaluate case studies and integrate all human resource management knowledge and skills learned in previous courses including critical strategies in the areas of legal/regulatory compliance, recruitment and selection of personnel, performance and feedback mechanisms, and financial and benefits compensation. *Prerequisite: BUS 452 with a minimum grade of C.*

## Business

### **BUS 463 Capstone: Entrepreneurial Leadership (4-5)**

This culminating course is the capstone course for students with studies concentrated in entrepreneurial leadership. Learning advances to a capstone-based experience developing a network of like-minded entrepreneurs and business leaders who offer feedback and analysis regarding the student's new business models. Student's network with venture capital experts, small business owners, socially-conscious leaders, and other entrepreneurship-minded professionals focused on modifying and finalizing their new business model. Each team's model culminates into a fully defined enterprise model with real implementation potential.

*Prerequisite: BUS 453 with a minimum grade of C.*

### **BUS 480 Applied Management Internship (2-5)**

This internship course is designed to provide students with major-related, supervised, and evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of the quality of documented learning acquired through hands-on, new experiences in an actual work setting. The course-related outcomes are designed and agreed upon by the student, the organization providing the internship, and the faculty member facilitating this course.

*Prerequisite: Acceptance into AM BAS and instructor permission.*

## Chemistry

Students seeking courses for general interest and degree distribution requirements should consider the following non-major course: CHEM& 110.

Students working toward Allied Health Careers should take CHEM& 121, and CHEM& 131 as needed.

Students pursuing science, engineering, pre-med, pre-pharmacy and similar majors/degrees should select courses from CHEM& 161, 162, 163, 261, 262 and 263.

An academic advisor should be consulted to determine the appropriate courses for your degree goal.

Students intending to major in Chemistry at a baccalaureate institution should work towards an Associate of Science degree with Chemistry specialization.

### **CHEM& 110 Chemical Concepts w/lab (5)**

Survey of the fundamental principles of chemistry in a relatively non-mathematical way. Course utilizes themes such as food, the environment, and the global economy. Course covers measurement, atomic and molecular structure, chemical reactions, and applications of chemistry to everyday life. Laboratory included.

*Prerequisite: ENGL/ 095 with a minimum grade of C; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **CHEM& 121 Introduction to Inorganic Chemistry (5)**

(Formerly CHEM 101) (For non-science and non-engineering majors. Intended primarily for students pursuing Nursing or Allied Health careers.) Course includes the study of the metric system, atomic theory, bonding, quantitative relationships, solutions, redox chemistry, equilibrium, gases, acids and bases, salts, and nuclear chemistry. Laboratory included.

*Prerequisite: MATH 095 with a minimum grade of C (may be taken concurrently).*

### **CHEM& 131 Introduction to Organic/Biochemistry (5)**

(Formerly CHEM-102) (For non-science majors.) Study of the structure, properties, and reactions of organic and biological compounds. Includes an introduction to biochemical processes. Laboratory included.  
*Prerequisite: CHEM& 121 with a minimum grade of C.*

### **CHEM& 140 General Chemistry Prep w/Lab (5)**

This course is designed to prepare students with no or minimal prior chemistry background for entry into the General Chemistry course sequence (CHEM& 161, 162, and 163). This course is appropriate for students pursuing science, engineering, pre-med, pre-pharmacy, and similar majors/degrees who have not met the chemistry prerequisite for CHEM& 161. Topics include both the foundational conceptual and quantitative aspects of chemistry such as the metric system, dimensional analysis, basic atomic structure, stoichiometry, and the composition and changes of matter. Laboratory included.  
*Prerequisite: MATH 140 or MATH 147 with a minimum grade of C (may be taken concurrently).*

### **CHEM& 161 General Chemistry w/Lab I (5)**

(Formerly CHEM-140) This is the first quarter of college-level General Chemistry. General Chemistry is appropriate for students on science, engineering, pre-med and similar pathways. This course covers measurements, the structure of matter, compounds, stoichiometry, classes of chemical reactions, gases, thermochemistry, and the quantum mechanical model of hydrogen. Laboratory included.

*Prerequisite: CHEM& 140 or CHEM& 121 with a minimum grade of C or one year of high school chemistry; and either MATH& 141 or MATH 147 with a minimum grade of C (may be taken concurrently).*

## Chemistry

### **CHEM& 162 General Chemistry w/Lab II (5)**

(Formerly CHEM-150) This is the second quarter of college-level freshman chemistry. It covers electronic structure, bonding and bonding theories, molecular shapes, intermolecular forces, solids, liquids, solutions, and chemical equilibrium. Laboratory included.  
*Prerequisite: CHEM& 161 with a minimum grade of C.*

### **CHEM& 163 General Chemistry w/Lab III (5)**

(Formerly CHEM-160) This is the third quarter of college-level freshman chemistry. It covers chemical kinetics, equilibrium, acids and bases, solubility, complex ions, thermodynamics, electrochemistry, and nuclear chemistry. Laboratory included.  
*Prerequisite: CHEM& 162 with a minimum grade of C.*

### **CHEM& 261 Organic Chemistry w/Lab I (5)**

(Formerly CHEM-231) Organic chemistry for science majors. Study of the application of general chemical principles to organic compounds. Topics include: structure, orbital theory, isomerism, nomenclature, resonance, and chirality; substitution and elimination reactions; introduction to IR spectroscopy. Laboratory included.  
*Prerequisite: CHEM& 163 with a minimum grade of C.*

### **CHEM& 262 Organic Chemistry w/Lab II (5)**

(Formerly CHEM-232) Organic chemistry for science majors. Topics include: structure, properties and reactions of alkenes, alkynes, alcohols, radicals, and aromatic compounds; introduction to NMR, UV/VIS, and mass spectroscopy. Laboratory included.  
*Prerequisite: CHEM& 261 with a minimum grade of C.*

### **CHEM& 263 Organic Chemistry w/Lab III (5)**

(Formerly CHEM-233) Organic chemistry for science majors. Topics include: structure, properties and reactions of aldehydes, ketones, amines, and carboxylic acids and their derivatives; introduction to biological molecules and biochemical processes. Laboratory included.  
*Prerequisite: CHEM& 262 with a minimum grade of C.*

## Chinese

The basic tenets of communications including reading, writing, speaking and listening are developed in a dynamic second language acquisition environment enhanced by technology.

Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well assessment. Students should expect to be immersed in the language. English will be used at a minimum.

### **CHIN& 121 Chinese I (5)**

The first year of the beginning Chinese language sequence consists of 121, 122, and 123. CHIN& 121 is the first quarter of the sequence. The basic tenets of communications including reading, writing, speaking and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent or instructor permission.*

### **CHIN& 122 Chinese II (5)**

CHIN& 122 is the second quarter of the first-year language sequence and continues to build on the skills acquired in CHIN&-121. The basic tenets of communications including reading, writing, speaking and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: CHIN& 121 with a minimum grade of C or instructor permission.*

### **CHIN& 123 Chinese III (5)**

CHIN& 123 is the third quarter of the first-year language sequence and continues to build on the skills acquired in CHIN&-122. The basic tenets of communications including reading, writing, speaking and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: CHIN& 122 with a minimum grade of C or instructor permission.*



## Communication Studies

### **CMST& 101 Introduction to Communication (5)**

(Formerly SPCH-100) A survey of fundamental principles of communication theory. Students are introduced to verbal and nonverbal communication, effective listening, interpersonal communication, small group discussion as well as culture and gender factors in communication. Written assignments, examinations and informal oral presentations are included.

### **CMST 110 Multicultural Communication (5)**

(Formerly SPCH-110) A survey of how culture shapes the communication interaction. Emphasis is on the role of world views, how culture affects the development of value systems, interpersonal relationships, workplace and educational expectations. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C (may be taken concurrently).*

### **CMST 120 The Process of Public Speaking (2)**

An introduction to the preparation of and process required to develop and deliver oral presentations. This course does NOT require oral presentations. Rather, focus includes the rhetorical situation, topic development, understanding an audience, appropriate research, understanding speech types, appropriate organization, the outlining process, and ethical considerations.

### **CMST 179 Special Topics in Communication (2)**

These are seminars designed to provide communication studies students with the opportunity to explore, research, and study selected topics and/or contemporary issues related to communication, public speaking, and the media. Faculty will generally determine material covered; however, material may also reflect the expressed need or interest of students in communication studies courses.

*Prerequisite: CMST& 101, CMST 110 or CMST& 220 with a minimum grade of C.*

### **CMST& 210 Interpersonal Communication (5)**

This course focuses on aspects of interpersonal communication in relationships that include philosophical, theoretical, and applied exploration of self-concept, perception, emotions, language, nonverbal cues, listening, and conflict.

### **CMST& 220 Public Speaking (5)**

(Formerly SPCH-101) An introduction to the preparation and delivery of oral presentations in an extemporaneous style. Emphasis is on ethical research, critical, logical analysis, organization of informative and persuasive presentations.

*Prerequisite: ENGL& 101 with a minimum grade of C (may be taken concurrently).*

### **CMST 230 Small Group Communication (5)**

Small group communication emphasizing theoretical principles and their application, enabling students to become more comfortable and competent participants in the group communication process. Emphasis will be on the study and application of the dynamics of group development, empathy skills, problem solving methodologies, and the use of power and status, as related to leadership, group think, effective meetings, systems, ethics, norms, presentation of findings, and conflict management.

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### **CMST 320 Professional and Organizational Communication (5)**

This course covers an introduction to the communication dynamics of organizations and the role of communication in the professional and management world. Students will analyze structured and informal communication channels, organizational culture, and strategic communication. Content includes work-related human relations topics such as communicating gender, power dynamics, mission, and identity. Other topics are conflict resolution, persuasive strategy, leadership, corporate culture, globalization, the role of technology, and external communication such as crisis communication. Content includes the major theories of organizational communication, identifying and defining primary concepts and applying them to discussions of real-world situations. The theory and research will be applicable and practically applied through case studies of organizational issues.

*Prerequisite: ENGL& 101 with a minimum grade of C and acceptance into AM BAS.*

## Community Health Professional

### **CHP 101 Community Health Navigation and Care Coordination (5)**

This course will explore professional care navigation, coordination, and advocacy roles in the health and human services systems.

### **CHP 260 Global Health (2)**

This course will compare and contrast healthcare delivery, to include the impact of community health practice, in the United States with that of another country. Students will study an identified population to learn about culture, belief systems, values, and practices that are specific to that population in order to better understand and provide health care that is both culturally competent and culturally sensitive in nature. It introduces students to serving global populations both domestically and internationally as clinicians, educators, and researchers. Students will participate in field work with a target population. (Multicultural course)

*Prerequisite: ENGL& 101 with a minimum grade of C and instructor permission. Cross-listed course: CHP 360 - Global Health.*

### **CHP 300 Introduction to Community Health (5)**

This course will explore the theories, past and present evidence, and application of key concepts related to understanding and improving community and population health. Students will apply these concepts to health and wellness issues with a focus on social, political, economic, environmental, and biomedical aspects of the field. Health disparities and inequities will be examined and potential solutions will be discussed. Secondary trauma, compassion fatigue, and burnout will also be investigated.

*Prerequisite: Acceptance into the Community Health BAS program.*

## Community Health Professional

### **CHP 305 Community Health Advocacy (5)**

This course will examine the procedures and protocols for chronic health screenings, navigation of health insurance and healthcare systems, and the fundamentals of confidentiality. Case management and advocacy principles as they apply to community and population health will be explored. Students will learn basic mental health first aid as well as the signs and symptoms of chronic and preventable health issues.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 310 Community Health Communications and Infomatics (5)**

This course will focus on three primary areas of ability: to collect, manage, and organize data to produce meaningful exchange of information; to gather, process, and present information to different audiences in person, through technology or other media channels; and to strategically design the information and knowledge exchange process to achieve specific objectives.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 315 Health Policy, Law and Ethics (5)**

This course will cover healthcare policies, laws, ethics, and social mores as they relate to the application of community health goals of protecting the public from threats of infectious disease, preventing chronic illnesses and injuries, and promoting healthy life styles. The balance between population welfare and individual rights and liberties will be examined from various perspectives. Ethical decision making strategies will be integrated throughout the course.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 320 Introduction to Epidemiology (5)**

In this introductory course, students will learn and apply basic concepts of epidemiology to multiple domains of public health. Students will illustrate and practice using epidemiology to better understand, characterize, and promote health at a population level. Students will engage in active and collaborative learning through team activities, individual projects, case studies, group discussion, and individual projects.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 325 Population Health and Wellness (5)**

This course provides an overview of the connections between prevention, wellness, and behavioral health with healthcare quality and safety, disease prevention, patient education, and behavior change across the life span. Students will learn to use theories and the four pillars of population health to understand human motives, cultural influences, and the relationship between health and behaviors. The signs and symptoms of chronic health issues will also be examined.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 330 Program Planning and Evaluation (5)**

This course will present a framework for developing, implementing, and evaluating strategies to improve the way healthcare and health promotion efforts are implemented in the community. Evidence based models will be used to bring together resources, logistics, plans, and people to ensure programs are functional and methods of data collection are effective.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 335 Healthcare Research & Statistics (5)**

This course will focus on the fundamentals of quantitative healthcare and applied research, and explore qualitative research. Students will learn how to identify problems to study, develop hypotheses and research questions, specify independent and dependent variables, check for the validity and reliability of studies and design research projects. Students will be exposed to the broad range of designs used in healthcare research from laboratory and field experiments, surveys, content analysis, focus groups and in-depth interviewing.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 340 Disaster Preparedness (5)**

Effective emergency planning is the key to surviving natural and man-made disasters. Risk analysis and the formulation of a comprehensive plan, followed by a vigorous and continuing testing program, are essential elements to surviving an emergency. Topics

covered include threat assessment, risk analysis, formulating a response plan, staffing an emergency operations center (EOC), interagency coordination and liaison, managing an actual incident and conducting effective follow-up analysis.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 360 Global Health (5)**

This course will compare and contrast healthcare delivery, to include the impact of community health practice, in the United States with that of another country. Students will study an identified population to learn about culture, belief systems, values, and practices that are specific to that population in order to better understand and provide health care that is both culturally competent and culturally sensitive in nature. It introduces students to serving global populations both domestically and internationally as clinicians, educators, and researchers. Students will participate in field work with a target population.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 400 Environmental Health (5)**

This course will examine the role of environmental health in contemporary society through the domains of water and air quality, food safety, solid and liquid waste disposal, occupational health and injuries, agents of disease, and exposure to toxic elements. Environmental policies and regulations and the role of regulatory agencies will also be explored.

*Prerequisite: Acceptance into the Community Health BAS program.*

### **CHP 410 Trauma as a Community Health Issue (5)**

This course will introduce students to the Public Health and Social-Ecological Models of Trauma. Students will learn to identify risk and protective factors related to trauma as well as the individual, relationship, community, and societal influences that create trauma and influence the reaction to it.

*Prerequisite: Acceptance into the Community Health BAS program.*

# Community Health Paramedicine

## **CHP 420 Families as Social Systems (5)**

This course will explore the many definitions of “family” as it applies to health and wellness. Students will learn concepts for understanding family processes and how social and cultural contexts shape family development. Students will examine methods and interventions to be applied to the routine of daily family living, families in crisis, and families living with adversity. Focus will include the five areas of health: physical, emotional, psychological, intellectual, and spiritual.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHP 430 Epidemics and Prevention (5)**

This course will examine the complex nature of epidemics, the role of healthcare workers in dealing with epidemics, and the costs and benefits of prevention and interventions. The need for long term emergency preparedness and clearly delineated responsibilities among government and non-government agencies in responding to epidemics will also be explored.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHP 440 Health, Culture and Diversity (5)**

The focus of this course will be to explore ways in which an awareness of the culture-health relationship can inform and strength community health work. What is meant by culture, the ways in which culture intersects with health issues, and how community health efforts reduce health disparities will also be examined.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHP 490 Community Health Professional Capstone (5)**

This is the capstone for the Community Health Professional concentration for the BAS degree.

## **CHPM 400 EMS Ethics and Leadership (5)**

This course will explore the intersections of the concepts of ethics and leadership from a wide range of contexts as it applies to EMS. Students will explore questions such as: How are values and ethics established in individuals and organizations? Is ethical leadership desirable and necessary? How

does ethical leadership apply to me? What are some helpful approaches to ethical questions? What are the responsibilities of leaders to establish ethical climates in their organizations and communities? What are the tensions between ethics and leadership? Are there universal values and ethical principles in leadership? How does culture influence ethics and leadership?

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 410 Emergency Management (5)**

This course will introduce students to the vocabulary and core components of Emergency Management. We will discuss the importance of this growing field that is changing rapidly as a result of an increase in frequency, complexity, and severity of man-made, natural, and technological disasters. We will examine historical events that have changed the nature of the field, and introduce students to the leadership and management roles that have emerged as a result of these events taking place.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 420 Injury Prevention (5)**

The purpose of this course is to provide an overview of the major issues in health promotion and disease and injury prevention. Students are introduced to strategies for promoting health and wellness, the major causes of premature mortality and morbidity, behavioral and environmental contributions to illness and injury, as well as strategies for risk reduction. Students will learn about the economic, public policy, and ethical issues that health promotion raises.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 430 Community Paramedicine (10)**

A Community Paramedic (CP) is an advanced paramedic that works to increase access to primary and preventive care and decrease use of emergency departments, which in turn decreases health care costs. Among other things, CPs may play a key role in providing follow-up services after a hospital discharge to prevent hospital readmission. CPs can provide health assessments,

chronic disease monitoring and education, medication management, immunizations and vaccinations, laboratory specimen collection, hospital discharge follow-up care and minor medical procedures.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 440 Community Paramedicine Internship (5)**

Clinical internship for Community Paramedicine.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 450 Critical Care Transport (10)**

Critical Care Transport course is designed to prepare the paramedic for advanced critical care on ground and air transports. This includes providing advanced clinical patient assessments and providing invasive care beyond the standard scope of advanced pre-hospital care. Upon completion of the CHPM series the student may take the Certified Flight Paramedic (FP-C) and/or the Certified Critical Care Paramedic (CCP-C) exams held by the International Board of Specialty Certification (IBSC).

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 460 Critical Care Transport Internship (5)**

The second in the series for students to step into clinical rotations with “hands-on” specialized ICU care rotation, and specialized practice.

*Prerequisite: Acceptance into the Community Health BAS program.*

## **CHPM 490 EMS Capstone (4-5)**

This capstone course integrates activities and responsibilities related to clinical processes in one of the specific advanced practice specialties: critical care, community paramedic, or EMS leadership.

*Prerequisite: Acceptance into the Community Health BAS program.*

## Community Health Respiratory Care

### CHRC 400 Tobacco and Nicotine Treatment (5)

Course focuses on the skills needed to effectively treat tobacco dependence. This course will cover: neuropharmacology of nicotine, optimization of pharmacologic management, conducting a basic counseling session, motivational interviewing and other counseling approaches, and application of treatment of tobacco dependence to people with co-morbid conditions.

*Prerequisite: Acceptance into the Community Health BAS program.*

### CHRC 410 Leadership for Health Care Professionals (5)

An extensive examination of current practices/trends of techniques used in the leadership of the health care environment. Emphasis will be placed upon specific skill sets necessary for effective supervision and leadership in a health care environment.

*Prerequisite: Acceptance into the Community Health BAS program.*

### CHRC 420 Education in Healthcare (5)

An interactive course designed to provide health care professionals with the skills to provide effective peer, student and client education.

*Prerequisite: Acceptance into the Community Health BAS program.*

### CHRC 430 Advanced Patient Care (5)

This comprehensive course gives Respiratory Care Practitioners the opportunity to enhance their knowledge and critical thinking skills in the areas of adult critical care, neonatal/pediatric critical care and emergency room environments. With content geared toward respiratory critical care and general critical care, this course is a comprehensive orientation to the respiratory therapist's role in caring for critically ill patients. This course prepares practitioners for specialty credentials in adult critical care and neonatal/pediatrics.

*Prerequisite: Acceptance into the Community Health BAS program.*

### CHRC 490 Advanced Respiratory Care Capstone (4-5)

This is a capstone course integrating activities and responsibilities related to clinical processes in one of the specific advanced practice specialties: critical care, neonatal, pediatrics, management or education.

*Prerequisite: Acceptance into the Community Health BAS program.*

## Computer Science

Tacoma Community College offers a wide range of courses involving computer applications. The courses listed below are designed to satisfy computer programming requirements for engineering and science majors. Students intending to major in Computer Science at a baccalaureate institution should work toward an Associate of Arts in Computer Science degree. Students intending to major in Computer Engineering at a baccalaureate institution should work toward an Associate of Science (AS-T2) in Computer Engineering. Students interested in introductory computer courses or business applications should see courses listed under Computer User.

### CS 120 Computer Science Principles (5)

Introduction to fundamental concepts of computer science and computational thinking. Course includes logical reasoning, problem solving, data representation, abstraction, the creation of "digital artifacts" such as Web pages and programs, managing complexity, operation of computers and networks, effective Web searching, ethical, legal and social aspects of information technology.

*Prerequisite: ENGL/ 095 and MATH 090 or MATH 093 with a minimum grade of C or equivalent.*

### CS 142 Java Programming for Engineers and Scientists I (5)

Using the Java programming language, students learn general principles of object-oriented programming, including how to design, implement, document, test, and debug computer programs. Topics include classes, objects, messages, expressions, decision structures, iteration, arrays, collections, events, and interfaces.

*Prerequisite: MATH& 141 with a minimum grade of C or equivalent.*

### CS 143 Java Programming for Engineers and Scientists II (5)

An intermediate programming course, using Java. Topics will include classes, interfaces, inheritance, polymorphism, exception handling, recursion, data structures, and an introduction to performance analysis and implementation trade-offs.

*Prerequisite: CS 142 with a minimum grade of C.*

## Computer User

Tacoma Community College offers computer courses for students at all levels of skill.

CU 091, CU 100 and CU 101 are introductory courses designed for students who are new to computers and online learning or for those needing to update or refresh their skills. CU 102 and CU 103 cover introductory levels of Microsoft Word and Microsoft Excel, respectively. Students can opt to take both Microsoft Word and Microsoft Excel in one class, CU 105. CU 202 and CU 203 cover advanced levels of Microsoft Word and Microsoft Excel, respectively. CU 110 and CU 210 cover introductory and advanced levels of Microsoft Access. CU 104 covers Microsoft PowerPoint and CU 108 covers Microsoft Outlook.

### CU 091 Introduction To The Keyboard (2)

Learn to use the computer keyboard by touch and begin to develop accuracy and speed.

*Recommended preparation: ENGL/ 085 or equivalent.*

### CU 100 Introduction to Practical Computing (2)

To provide individuals with an opportunity to cultivate the computer usage skills necessary to become confident, successful students. This course is an introduction to computer usage skills using the most current Microsoft Windows operating system. Topics include: developing computer literacy, navigation, organization, printing, file location and management, accessing help.

*Recommended: READ 095 or ENGL/ 095 and HD 101.*

### CU 101 Web-Enabled Learning and Communication (2)

Introduction to web-enabled learning and communication. Student will receive guidance in how to effectively navigate and use online TCC resources; Angel, Portal, Outlook Web Access. Emphasis on virtual communication, security concerns, Internet search effectiveness, and ethical behaviors for virtual learning communities.

*Prerequisite: Knowledge of Microsoft Windows operating system required or Program Chair permission. Recommended: CU 100.*

## Computer User

### **CU 102 Word I (2)**

Students will use MSWord to create multi-page documents for a variety of purposes and situations such as reports, newsletters, resumes and business correspondence. This course can be used as preparation for the MOS Word Core Level certification exam.  
*Recommended preparation: CU 100 and ENGL/095.*

### **CU 103 Excel I (3)**

Students will create and edit a workbook with multiple sheets and use a graphic element to visually represent data. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs. This course can be used as preparation for the MOS Excel Core Level certification exam.  
*Recommended: CU 100, MATH 075 and ENGL/095.*

### **CU 104 PowerPoint (1)**

Students will create, edit, and enhance presentations and slideshows. Presentation examples include professional-grade sales presentations, employee training, instructional materials, and kiosk slideshows. This course can be used as preparation for the MOS PowerPoint Core Level certification exam.  
*Prerequisite: CU 102 or CU 105 with a minimum grade of C (may be taken concurrently).*

### **CU 105 Word I & Excel I (5)**

Students will use MS Word to create multi-page documents for a variety of purposes and situations such as reports, newsletters, resumes and business correspondence. Students will also use MS Excel to will create and edit a workbook with multiple sheets, and use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs. This course can be used for preparation for the MOS Word Core Level certification exam and the MOS Excel Core Level certification exam. This course is equivalent to the combination of CU102 and CU103.  
*Recommended: CU 100, MATH 075 and ENGL/095.*

### **CU 108 Outlook (2)**

Students will use MS Outlook to enhance professional correspondence, create calendars, and schedule appointments. Application examples include coordinating building resources, sending messages for marketing campaigns, planning staff meetings, and assigning meeting action items. This course can be used as preparation for the MOS Outlook Core Level certification exam.  
*Prerequisite: CU 102 or CU 105 with a minimum grade of C or equivalent.*

### **CU 110 Access I (2)**

Students will apply database design principles to create and maintain basic MS Access database objects including tables, relationships, forms, reports, and queries. This course, along with CU 210, can be used as preparation for the MOS Access Core Level certification exam.  
*Prerequisite: CU 103 or CU 105 with a minimum grade of C or equivalent.*

### **CU 202 Word II (3)**

Students will use MS Word to create and manage professional documents of four pages or more for a variety of specialized purposes and situations. They will learn to customize the Word environment to meet project needs and enhance productivity. Examples of documents include a business plan, a research paper, a book, a specialized brochure, and a mass mailing. This course can be used for preparation for the MOS Word Expert Level certification exam.  
*Prerequisite: CU 102 or CU 105 with a minimum grade of C or equivalent.*

### **CU 203 Excel II (3)**

Student will be able to create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They will customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. This course can be used for preparation for the MOS Excel Expert Level certification.  
*Prerequisite: CU 103 or CU 105 with a minimum grade of C or equivalent.*

### **CU 210 Access II (3)**

Students will apply database design principles to create and maintain advanced MS Access database objects including tables, relationships, forms, reports, queries, macros, and modules. This course can be used as preparation for the MOS Access Core Level certification exam.  
*Prerequisite: CU 110 with a minimum grade of C.*

## Diagnostic Medical Sonography

### DMS 101 Sonography Lab I (2)

This course is designed to develop the foundations of sonography by introducing students to sonographic equipment, exams and patient care techniques. Student will also begin to learn how to apply critical thinking, communication and problem solving skills in the healthcare setting. Activities will emphasize the use of terminology, patient care practices, scanning techniques and image optimization while focusing on abdominal structures.

*Prerequisite:* Acceptance into DMS program or Program Chair approval. ENGL& 101, ENGL& 102, or ENGL 103; MATH& 141; CMST& 101, CMST 110 or CMST& 220; PHYS& 115 or PHYS& 116; HIT 130; BIOL& 241 and BIOL& 242 with a minimum grade of C+.

### DMS 102 Sonography Lab II (3)

This course builds on the scanning fundamentals developed in DMS 101 with an emphasis on advanced scanning techniques and patient care practices. Activities will focus on relating clinical and pathologic information, effective verbal/written communication methods and caring for high needs patients while evaluating superficial, gynecologic and obstetric structures.

*Prerequisite:* DMS 101 with a minimum grade of C or Program Chair approval.

### DMS 103 Sonography Lab III (2)

As the last course in the scanning laboratory series, students will practice independence while performing exams, critically evaluating clinical situations and exploring their role in the clinical setting. Activities will emphasize autonomy, independent decision making, professional behavior and timeliness.

*Prerequisite:* DMS 102 with a minimum grade of C or Program Chair approval.

### DMS 105 Ultrasound Cross-Sectional Anatomy (5)

This course explores the human body in the common sonographic directional planes and other imaging modalities. Activities will emphasize the use of directional, anatomic and sonographic terminology, anatomic relationships, directional correlation with transducer position and image optimization. The lab portion of this course focuses on three-dimensional anatomic relationships.

*Prerequisite:* Acceptance into DMS program or Program Chair approval. ENGL& 101, ENGL& 102 or ENGL 103 with a minimum grade of C+; MATH& 141 with a minimum grade of C+; CMST& 101, CMST 110 or CMST& 220 with a minimum grade of C+; PHYS& 115 or PHYS& 116 with a minimum grade of C+; HIT 130 with a minimum grade of C+; BIOL& 241 and BIOL& 242 with a minimum grade of C+.

### DMS 110 Pathophysiology I (3)

This course introduces students to the fundamentals of investigating disease processes by evaluating high risk populations, associating clinical indications, identifying pathologic features in sonographic images and communicating exam findings to healthcare team members. Activities emphasize the use of terminology, problems solving and image recognition related to abdominal structures.

*Prerequisite:* Acceptance into DMS program or Program Chair approval. ENGL& 101, ENGL& 102 or ENGL 103; MATH& 141; CMST& 101, CMST 110 or CMST& 220; PHYS& 115 or PHYS& 116; HIT 130; BIOL& 241 and BIOL& 242 with a minimum grade of C+.

### DMS 111 Pathophysiology II (3)

As the second course in sonographic pathophysiology, students will further advance their understanding of investigating disease processes while focusing on superficial structures. Critical thinking, problem solving and independent decision making will be emphasized.

*Prerequisite:* DMS 110 with a minimum grade of C or Program Chair approval.

### DMS 120 Abdominal Sonography (3)

This course focuses on the anatomy, physiology and sonographic appearance of abdominal organs and structures. Students will be introduced to the fundamentals of abdominal sonographic terminology, image identification and optimization in addition to lab values and clinical findings.

*Prerequisite:* Acceptance into DMS program or Program Chair approval. ENGL& 101, ENGL& 102 or ENGL 103; MATH& 141; CMST& 101, CMST 110 or CMST& 220; PHYS& 115 or PHYS& 116; HIT 130; BIOL& 241 and BIOL& 242 with a minimum grade of C+.

### DMS 121 Small Parts and Superficial Structures Sonography (3)

This course focuses on the anatomy, physiology and sonographic appearance of superficial organs and structures. Terminology, imaging considerations, optimization techniques and patient care requirements specific to superficial structures will also be covered.

*Prerequisite:* DMS 120 with a minimum grade of C or Program Chair approval.

### DMS 122 Gynecology and Obstetrics I (3)

This course focuses on the anatomy, physiology and sonographic appearance of gynecologic and first trimester obstetric structures. Clinical indications, imaging considerations and patient care requirements specific to OB/GYN patients will also be covered. Students will learn the pathologic processes associated with first trimester obstetrics and gain skills related to identifying and documenting abnormalities.

*Prerequisite:* DMS 120 with a minimum grade of C or Program Chair approval.

### DMS 123 Gynecology and Obstetrics II (5)

This is the second course in a two part OB/GYN series that focuses on the anatomy, physiology and sonographic appearance of the developing pregnancy and the post-partum pelvis. Clinical indications, imaging considerations and patient care requirements specific to late term and post-partum patients will be covered and students will also learn the current methods for distinguishing and documenting pathologic conditions.

*Prerequisite:* DMS 122 with a minimum grade of C or Program Chair approval.

### DMS 124 Introduction to Vascular Sonography (3)

This course is an introduction to vascular sonography and combines material from the physics, superficial pathology and cross sectional anatomy courses. Students will also apply general sonographic scanning and patient care techniques to vascular patients and broaden their understanding of cardiovascular pathologic processes and the effect on the body.

*Prerequisite:* Acceptance into the DMS program; Program Chair Approval. DMS 102, DMS 111, DMS 121, DMS 122 and DMS 131 with a minimum grade of C.

## Diagnostic Medical Sonography

### **DMS 125 Advanced Sonography (2)**

This course is designed to further develop student's critical thinking skills related to integrating clinical, imaging and pathologic information in preparation for their clinical internships. Case studies and scenarios will be used to refine student's problem solving, reasoning, and independent decision making skills.

*Prerequisite:* DMS 120, DMS 121 and DMS 122 with a minimum grade of C or Program Chair approval.

### **DMS 130 Ultrasound Physics & Instrumentation I (3)**

This is the first of two courses focusing on the mastery of sonographic physics principals. Basic wave terminology, sound and media interactions and system functions will be covered. Students will also begin creating a personalized study guide to utilize when preparing for their first national registry exam.

*Prerequisite:* Acceptance into DMS program or Program Chair approval. ENGL& 101, ENGL& 102 or ENGL 103; MATH& 141; CMST& 101, CMST 110 or CMST& 220; PHYS& 115 or PHYS& 116; HIT 130; BIOL& 241 and BIOL& 242 with a minimum grade of C+.

### **DMS 131 Ultrasound Physics & Instrumentation II (3)**

This is the second of two courses focusing in the mastery of sonographic physics principals. Advanced theory will be covered including Doppler, harmonic imaging and pulse phasing techniques. Quality assurance and hemodynamics will also be covered. Students will complete their study guides and prepare to sit for their first national registry exam, the Scientific Principals and Instrumentation exam.

*Prerequisite:* DMS 130 with a minimum grade of C or Program Chair approval.

### **DMS 140 Patient Care and Scope of Practice (2)**

This course further develops patient care skills and defines a sonographer's role in the healthcare team. Students learn to perform a basic patient assessment, predict and respond to barriers in patient care, provide support during invasive procedures and alternative patient positioning techniques.

*Prerequisite:* Program Chair approval; DMS 102 with a minimum grade of C.

### **DMS 150 Introduction to Clinicals (2)**

This course is designed to transition students from the academic setting into the clinical setting. Students will develop skills related to interacting with clinical instructors, explore their role as a student in the clinical setting and develop strategies to take advantage of educational opportunities in the healthcare setting.

*Prerequisite:* DMS 102 with a minimum grade of C or Program Chair approval.

### **DMS 151 Ultrasound Clinical I (13)**

This course is the first of a four quarter clinical internship designed to take students from scanning in the classroom to integrating themselves into an imaging department. Under the guidance of clinical instructors, students will apply their fundamental scanning, patient care and clinical skills while performing a supportive role in the imaging department.

*Prerequisite:* DMS 150 with a minimum grade of C or Program Chair approval.

### **DMS 160 Clinical Seminar I (2)**

In this course, students will reflect on their role in the clinical setting and educate their peers based on their own learning experiences. Presentations and discussions will be centered on identifying barriers to learning, strategies to maximize educational opportunities and discussing applications of their didactic knowledge in the clinical setting. Students will also begin to plan a continuing education seminar for the benefit of community sonographers.

*Prerequisite:* Acceptance into DMS program or Program Director approval.

### **DMS 175 DMS Orientation (2)**

This course familiarizes students with their instructors, classroom and provides a detailed overview of the expectations within the laboratory and clinical settings. Students will also complete basic healthcare certifications and instructions on how to maintain their online immunization records.

*Prerequisite:* Acceptance into DMS program or Program Chair approval. ENGL& 101, ENGL& 102 or ENGL 103; MATH& 141; CMST& 101, CMST 110 or CMST& 220; PHYS& 115 or PHYS& 116; HIT 130; BIOL& 241 and BIOL& 242 with a minimum grade of C+.

### **DMS 250 Ultrasound Clinical II (13)**

As the second quarter in the four quarter long clinical internship, students will further their scanning, pathologic identification and basic patient care skills. Students will be performing partial sonographic examinations under the supervision of clinical instructors and refine their communication skills with patients, families and healthcare workers.

*Prerequisite:* DMS 151 and DMS 160 with a minimum grade of C.

### **DMS 251 Ultrasound Clinical III (13)**

This is the third quarter of the four quarter long clinical internship designed to further promote the student's development as an entry level sonographer. Students will begin to independently perform basic sonographic exams and advanced patient care techniques under minimal direct supervision of clinical instructors.

*Prerequisite:* DMS 250 with a minimum grade of C or Program Chair approval.

### **DMS 252 Ultrasound Clinical IV (13)**

As the last quarter of the clinical internship, students will focus on mastery of advanced scanning, patient care and communication techniques. Students will fully integrate themselves into the imaging department by independently performing sonographic examinations, autonomously responding to high needs patients and functioning as entry level sonographer under the observation and assistance of clinical instructors.

*Prerequisite:* DMS 251 with a minimum grade of C or Program Chair approval.

### **DMS 260 Ultrasound Seminar and Critique II (2)**

In this course, students will reflect on their role in the clinical setting and educate their peers based on their own learning experiences. Presentations and discussions will be centered on analyzing barriers to learning and developing skills on how to overcome them, strategies to maximize educational opportunities and application of didactic knowledge in the clinical setting. Students will continue to plan a continuing education seminar for the benefit of community sonographers.

*Prerequisite:* DMS 151 and DMS 160 with a minimum grade of C.

## Diagnostic Medical Sonography

### **DMS 261 Ultrasound Seminar and Critique III (2)**

In this course, students will reflect on their role in the clinical setting and educate their peers based on their own learning experiences. Presentations and discussions will be centered on developing strategies to overcome barriers to learning, skills to maximize educational opportunities and how the integration of didactic and clinical knowledge applies to the role of an entry level sonographer. Students will continue to plan a continuing education seminar for the benefit of community sonographers.

*Prerequisite:* DMS 260 with a minimum grade of C or Program Chair approval.

### **DMS 270 Sonography Registry Review (2)**

This course prepares students to sit for national registry exams required by the American Registry of Diagnostic Medical Sonographers. Testing strategies, study guide development and mock exams will be used to prepare students for the Abdominal and Obstetric/Gynecology specialties.

*Prerequisite:* DMS 251 with a minimum grade of C or Program Chair approval.

### **DMS 299 Clinical Independent Study (3-13)**

This supplementary clinical course allows students to continue their skill development in the clinical setting.

*Prerequisite:* DMS and all DMS didactic and lab coursework with a minimum grade of C.

## Early Childhood Education

### **ECE 102 Math, Science, and Technology for Young Children (3)**

(Formerly EDP 102) This course focuses on the integration of developmentally appropriate math, science, and technology content into the early childhood classroom curriculum. The process of using inquiry tools and problem-solving strategies and focused learning centers with content embedded in all other classroom areas is explored. Examine numerous evidence-based instructional strategies for teaching young children, birth to eight years old, including those who are culturally, linguistically and ability diverse.

### **ECED& 105 Introduction to Early Childhood Education (5)**

(Formerly ECE 100) Explore the foundations of early childhood education. Examine theories defining the field, issues, trends, best practices, and program models. Observe children, professionals and programs in action.

### **ECED& 107 Health/Safety/Nutrition (5)**

(Formerly ECE 202) Introduction to the implementation of equitable health, safety, and nutrition standards for the growing child in group care. Focus on federal Child Care Block Grant funding (CCDF) requirements, Washington State licensing, and Head Start Performance standards. Develop skills necessary to keep children health and safe, report abuse and neglect, and connect families to community resources.

### **ECED& 120 Practicum: Nurturing Relationships (2)**

(Formerly ECE 191) In an early learning setting, engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on children's health and safety, promoting growth and development, and creating a culturally responsive environment.

### **ECE 121 Child, Family and Community Relations I - Creating Community Among Adults in Early Care Settings (1)**

(Formerly EDP 121) Early care and education professionals will learn about the importance of adult relationships in child care and early learning settings.

### **ECE 122 Child, Family and Community Relations II Building a Caring Community with Children (1)**

(Formerly EDP 122) Caregivers will learn about concepts and the value of the caregiver-child relationship. The course will focus on care giving practices to strengthen and build skills to promote positive interactions and relationships.

### **ECE 123 Child, Family and Community Relations III Building Quality Relationships with Families (1)**

(Formerly EDP 123) Caregivers will explore ways to form culturally-responsive partnerships with families and parents.

### **ECE 130 Cultural Competency and Responsiveness in Early Childhood Education (2)**

(Formerly EDP 130) This course covers evidence-based practices related to providing responsive care and education in home, classroom, and community settings serving culturally, linguistically, and ability-diverse children, birth to eight-years-old, and their families. Students will be required to examine their own personal culture and to explore ways in which to become an effective teacher to each young child. Included are strategies for helping teachers, children, families, and colleagues to communicate, negotiate, and resolve dilemmas caused by cultural differences. There will be a focus on using an anti-bias approach. (multicultural content)

### **ECED& 132 Infant/Toddler Care (3)**

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally retentive care.

### **ECED& 139 Administration of ECE (3)**

Develop administrative skills required to develop, operate, manage, and improve early childhood and care programs. Acquire basic business management skills. Explore resources and supports for meeting Washington State licensing and professional NAEYC standards.



## Early Childhood Education

### **ECE 141 Promoting Positive Behavior I (1)**

(Formerly EDP 141) In this course students will explore social-emotional development and child guidance. The foundational aspect of building relationships with children, including those who are culturally, linguistically, and ability diverse, will be emphasized and students will examine how terminology impacts adult perspectives on child guidance. Completion of ECE-141, 142, 143 will be equivalent to ECE-140.

### **ECE 142 Promoting Positive Behavior II (1)**

(Formerly EDP 142) This course is an exploration of how the environment influences children's behavior. Environmental variables such as the physical and temporal aspects of the classroom, interactions, and using social-emotional teaching strategies with all children, including those who are culturally, linguistically, and ability diverse, will be addressed. Completion of ECE-141, 142, 143 will be equivalent to ECE-140.

### **ECE 143 Promoting Positive Behavior III (1)**

(Formerly EDP 143) In this course, students will review the foundational components of child guidance and learn about creating an individual plan for children who need extra support to function effectively in the classroom. Students will compare teacher conduct as a professional vs. a technician and address how to ensure success for each child, including those who are culturally, linguistically, and ability diverse. Completion of ECE-141, 142, 143 will be equivalent to ECE-140.

### **ECED& 160 Curriculum Development (5)**

Investigate learning theory, program planning, tools, and methods for curriculum development that promotes language, fine/gross motor, social/emotional, cognitive, and creative skills and growth in children birth through age eight by using developmentally appropriate and culturally responsive practices.

### **ECED& 170 Learning Environments (3)**

(Formerly ECE 101) This class focuses on the adult's role in designing, evaluating, and improving indoor and outdoor environments that ensure quality learning, nurturing experiences, and optimal development of young children.

### **ECED& 180 Language and Literacy (3)**

(Formerly ECE 112) Teaching strategies for language acquisition and literacy skill development are examined at each developmental stage (birth-age eight) through the four interrelated areas of speaking, listening, writing, and reading.

### **ECED& 190 Observation and Assessment (3)**

Collect and record observation and assessment data in order to plan for and support the child, the family, the group, and the community. Practice reflection techniques, summarizing conclusions, and communicating findings.

### **ECE 192 Early Childhood Clinical Experience II (2)**

Clinical experience that provides students the opportunity to observe and practice the skills, theories and behaviors taught in the coursework for the child development specialist certificate.

### **ECE 193 Early Childhood Clinical Experience III (2)**

Clinical experience that provides students the opportunity to observe and practice the skills, theories and behaviors taught in the coursework for the child development specialist certificate.

### **ECE 201 Effective Communication with Colleagues and Families (3)**

(Formerly EDP 204) This course teaches effective communication techniques for interacting with colleagues and families of young children, birth to eight-years-old, including those who are culturally, linguistically, and ability diverse in a variety of early childhood education settings.

### **ECE 203 Family Systems & Supports (3)**

(Formerly EDP 203) This course offers an introduction to varying family dynamics within family systems as they relate to working with young children (birth to 8 years old) and their families who are culturally, linguistically and ability diverse in community, home, and early childhood education settings. This includes describing evidence-based, supportive, and culturally responsive approaches for working collaboratively with families to address their concerns, resources, and priorities.

### **ECE 211 Administration of Early Learning Programs I - Program Administration (1)**

(Formerly EDP 211) This course emphasizes the technical knowledge necessary to develop and maintain a quality early care and education program. It focuses on planning, developing and managing a center; and meeting licensing, accreditation regulations and guidelines.

### **ECE 212 Administration of Early Learning Programs II - Operation of Children's Programs (1)**

(Formerly EDP 212) This course focuses on the operation of children's programs in early learning centers. It addresses the grouping of children; creating developmentally appropriate curriculum that is relevant for children for birth through age eight; and implementing a food program.

### **ECE 213 Administration of Early Learning Programs III - Staffing and Professional Development (1)**

(Formerly EDP 213) This course addresses staff recruitment, retention, support, and supervision which will lay a foundation for positive personnel management. Professional responsibilities such as cultural responsiveness and reflective practice are also examined.

### **ECE 290 Practicum (3)**

(Formerly EDP 290) This is a 99 hour, supervised classroom experience in an integrated early childhood education setting and is the capstone class for the Early Childhood Education with an Emphasis on Children with Exceptionalities program. This includes birth to eight-year-old children who are culturally, linguistically, and ability diverse in either a school and/or current work site. This practicum provides students the opportunity to demonstrate the skills and knowledge they gained in their previous early childhood education courses which must be successfully completed before taking this class. Students are expected to follow practicum expectations, procedures, responsibilities, and methods of evaluation. Criminal background clearances are required.

*Prerequisite: Instructor permission and criminal background clearances required.*

## Economics

### **ECON& 201 Micro Economics (5)**

(Formerly ECON-201) Theory of the market systems as a method of allocating resources and distributing income and products. Analysis of current problems including government regulation, subsidies, monopoly, and taxation.  
*Prerequisite: MATH 095 with a minimum grade of C or equivalent or assessment above MATH 095 or MATH 094 with a minimum grade of C.*

### **ECON& 202 Macro Economics (5)**

(Formerly ECON-200) History and development of the United States' economy, including effects of government taxing and spending, control of the money supply, and effects of international trade.  
*Prerequisite: MATH 095 with a minimum grade of C or equivalent or assessment above MATH 095 or MATH 094 with a minimum grade of C.*

## Education

### **EDUC& 115 Child Development (5)**

The purpose of this course is to provide the student with an overview of the study of child development, including those children who are culturally, linguistically, and ability diverse. The scientific and theoretical approaches to studying the development of the physical, cognitive, communication, social, and emotional changes that occur from conception through adolescence and the biological and/or environmental influences that affect this development will be addressed. Materials and resources regarding communication with families, brain development, and milestones for each stage of development will also be provided. Four field observations within inclusive child care settings are required outside of class time.  
*Prerequisite: PSYC& 100.*

### **EDUC& 130 Guiding Behavior (3)**

(Formerly ECE 140) Examine the principles and theories promoting social competence in young children and creating safe environments. Develop skills in promoting effective interactions, providing positive individual guidance, and enhancing group experiences. Completion of ECE 141, 142, 143 is equivalent to EDUC&130.

### **EDUC& 150 Child, Family, Community (3)**

Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication.

### **EDUC& 204 Exceptional Child (5)**

This introductory course will address supports and services across home and community settings for culturally, linguistically, and ability diverse young children, ages birth to eight. Emphasis will be placed on identifying and using evidence-based practices for working with children with special needs and their families, and the resources and tools for navigating early intervention and special education services, including the history, legislation, policies, and competencies that guide early intervention in the State of Washington. As part of this course, 40 hours in a supervised Field Experience are required.

The integration of theory and developmentally appropriate evidence-based practice will be expected. Emphasis will be placed on professional relationships, appropriate adult/child interactions, basic curriculum planning, and program routines for young children with special needs and their families. A criminal background check is required.

### **EDUC& 205 Introduction to Education w/Field Experience (5)**

(Formerly EDUC-201) Designed for students who are considering teaching as a profession, the course will examine historical and philosophical foundations of American education, learning theories, contemporary students, and curriculum development. The course will also explore the social, political, cultural, and economic pressures that influence current issues and trends in education. Includes a required field experience in a public school K-12 setting (40 hours) that provides students opportunities to observe and reflect upon today's classrooms, students, and teachers.  
*Prerequisite: Assessment at college-level reading and writing.*

### **EDUC 220 Diversity in Education (5)**

Examination of the relationship of cultural values to the formation of the child's self-concept and learning styles. Examination of the role of prejudice, stereotyping and cultural incompatibilities in education. Emphasis on preparing future teachers to offer an equal educational opportunity to children of all socioeconomic and cultural groups, as well as inclusion of exceptional children. (multicultural content)

### **EDUC 299 Early Childhood Field Experience (2)**

A 2-credit course based on an independent study contracted between an instructor and a student. This class is taken concurrently with EDP-100 which will provide the opportunity to work with children in ECE classrooms, learning and implementing developmentally appropriate practices in guidance, curriculum, observation, assessment and the preparation of the physical environment.  
*Prerequisite: EDP 100 must be taken concurrently.*

## Emergency Medical & Health Services

### **EMC 110 Emergency Medical Technician Basic (10)**

Upon completion of this course, students are prepared to fulfill state and/or National Registry requirements for certification as an EMT-Basic, the entry level position in EMS for pre-hospital care providers. EMT-Bs provide basic life support and transportation for victims of illness and injury. Includes 121 hours of lecture and practical class-work time, and some clinical observation. Class also meets a portion of the prerequisites for the Paramedic program. Program adheres to the U.S. Department of Transportation guidelines and the Washington State Department of Social and Health Services standards.

*Prerequisite: MATH 075 with a minimum grade of C or ACCUPLACER™ assessment exam showing placement in MATH 085 or higher; and ACCUPLACER™ assessment exam showing placement in ENGL/085 or higher. Corequisite: EMC 111.*

### **EMC 111 Emergency Medical Technician Lab (2)**

Laboratory Section for the EMT Basic  
*Corequisite: EMC 110*

### **EMC 112 Emergency Medical Technician Recertification (4)**

For the currently certified EMT-Basic who needs to fulfill state, county, and/or National Registry requirements for recertification.

*Prerequisite: Current state, county, or National Registry EMT-Basic Certification and Program Chair permission.*

### **EMC 116 Introduction to Emergency Medical Care (4)**

EMC introduces the concept of pre-hospital care. Fundamental principles of the practice are presented in this hybrid course, i.e., medical ethics, role & responsibilities, critical thinking, medical math, and health and wellness.

*Prerequisite: Acceptance into the Paramedic Program.*

### **EMC 117 Prehospital Emergency Pharmacology (3)**

Course relating between specific emergencies to the types of medications used for treatment. Includes classifications, actions, indications, administration and dosages, as well as side effects of each medication used in pre-hospital treatment of medical and traumatic injuries. In addition students will learn common prescription medications found in the home.

### **EMC 118 Human Body Systems (3)**

Review of Anatomy and Physiology, Pathophysiology and Life Span Development.

### **EMC 130 Paramedic Clinical I (4)**

First-quarter clinical and in-field experience for paramedic students taken in conjunction with EMC 120. Includes clinical experience in hospital and in-field experience.

*Prerequisite: Acceptance into the Paramedic Certificate Program.*

### **EMC 131 Paramedic Clinical II (7)**

Second-quarter clinical and field experience for Paramedic students taken in conjunction with EMC 121. Students will have assigned clinical and in-field rotations.

*Prerequisite: EMC 120 and EMC 130.*

### **EMC 132 Paramedic Clinical III (9)**

Continuation of EMC-131. Emphasis is on clinical and extensive in-field experience. Third quarter clinical and in-field experience for paramedic students includes specified hospital assignments and extensive in-field experience.

*Prerequisite: EMC 121 and EMC 131.*

### **EMC 140 Supplemental Education for EMC Programs I (1)**

This course offers individualized didactic instruction to assist previously educated and/or certified personnel in meeting state, county, local or national certification or recertification requirements.

*Prerequisite: Instructor permission.*

### **EMC 150 Supplemental Education for EMC Programs II (1)**

This course offers individualized clinical instruction to assist previously educated and/or certified personnel in meeting state, county, local or national certification or recertification requirements.

*Prerequisite: Instructor permission.*

### **EMC 200 Contemporary Issues in Pre-hospital Care (2)**

This is a dynamic course that focuses on the various components of quality EMS. The course utilizes assorted current readings in conjunction with small group work that promotes critical thinking and a global understanding of what comprises state of the art out-of-hospital care.

*Prerequisite: Instructor permission.*

### **EMC 218 Basic Electrocardiography (4)**

Fundamentals of electrocardiography and interpretation of normal and abnormal ECG patterns. Normal and abnormal wave patterns, presentation, and treatment of common cardiac diseases.

*Prerequisite: EMC 116, EMC 117 and EMC 118. Corequisite: EMC 130, EMC 225 and EMC 230.*

### **EMC 219 Advanced Electrocardiography (2)**

Building upon basic ECG knowledge, this course advances into 12-lead ECG interpretation and pre-hospital treatment. Focusing on signs and symptoms of ischemia or infarction, axis deviation, and other ECG anomalies, students learn about various treatment modalities.

*Prerequisite: EMC 130, EMC 218, EMC 230, and EMC 225 with a minimum grade of C. Corequisite: EMC 131, EMC 220, EMC 226 and EMC 231.*

### **EMC 220 Management of Traumatic Injuries and Special Populations (2)**

Assessment and management of traumatic injuries and special populations.

*Prerequisite: EMC 218, EMC 230, EMC 130 and EMC 225 with a minimum grade of C. Corequisite: EMC 131, EMC 219, EMC 226 and EMC 231.*

## Emergency Medical & Health Services

### **EMC 225 Paramedic Skills Lab I (3)**

The first of three courses, reviews EMT level skills and introduces the advanced paramedic skills. Students learn safe and effective skills performance and begin to integrate assessment, management and skills performance into simulated patient scenarios. *Prerequisite: EMC 116, EMC 117 and EMC 118. Corequisite: EMC 130, EMC 218 and EMC 230.*

### **EMC 226 Paramedic Skills Lab II (3)**

The second course in the series continues the development of advanced level skills proficiency. Students integrate knowledge of specific patient complaints with assessment and management skills. *Prerequisite: EMC 218, EMC 230, EMC 130 and EMC 225 with a minimum grade of C. Corequisite: EMC 131, EMC 219, EMC 220 and EMC 231.*

### **EMC 227 Paramedic Skills Lab III (3)**

The third course in the series of advanced level skills development. Students demonstrate proficiency and prepare for the paramedic credentialing exam. *Prerequisite: EMC 218, EMC 220, EMC 231, EMC 131 and EMC 226 with a minimum grade of C. Corequisite: EMC 132, EMC 232, and EMC 240.*

### **EMC 230 Medical Emergencies I (6)**

The first in a series of three courses addressing the epidemiology and pathophysiology of various respiratory and cardiac medical complaints. Students will learn to integrate assessment findings with the formulation of a treatment plan for the acute illness. *Prerequisite: EMC 116, EMC 117 and EMC 118. Corequisite: EMC 130, EMC 218 and EMC 225.*

### **EMC 231 Medical Emergencies II (3)**

A continuation of the series of three courses addressing epidemiology, and pathophysiology of various medical and trauma complaints. Students will learn to integrate patient assessment and diagnostic findings with the formulation of a treatment plan for acute illness and injury. *Prerequisite: EMC 218, EMC 230, EMC 130 and EMC 225 with a minimum grade of C. Corequisite: EMC 131, EMC 219, EMC 220 and EMC 226.*

### **EMC 232 Medical Emergencies III (3)**

The conclusion of the sequence in medical emergencies where the epidemiology, pathophysiology, diagnostic and assessment findings are integrated to form a treatment plan for acute illness or injury in the emergency setting. This course will also include considerations for special patient populations as well as EMS operations. *Prerequisite: EMC 218, EMC 220, EMC 231, EMC 131 and EMC 226 with a minimum grade of C. Corequisite: EMC 132, EMC 227, and EMC 240.*

### **EMC 240 Paramedic Crisis Resource Management (2)**

This course addresses the human factors contributing to EMS scene management. Focusing on human error, perception modalities, emotion, cognitive attention, working in a healthcare environment challenges, crisis communication, on-scene management, and coping with stress. *Prerequisite: EMC 218, EMC 220, EMC 231, EMC 131 and EMC 226 with a minimum grade of C. Corequisite: EMC 132, EMC 227 and EMC 232.*

## Engineering

The Engineering transfer program is designed to offer students the same courses as the first two years at a baccalaureate institution.

There are three engineering Major Related Program (MRP) Associate of Science degrees: (1) Civil, Mechanical, Industrial, Aeronautical/Astronautical and Material Science Engineering, (2) Electrical and Computer Engineering, and (3) Bioengineering and Chemical Engineering. There is also an engineering Associate of Science (AS-T2) in Computer Engineering. In some cases, students will work toward a general AS-T2 on the recommendation of an advisor. Students are strongly encouraged to meet with an engineering advisor as early as possible.

Students seeking courses for general interest, upgrading skills, or college-level electives should consider ENGR& 104 and ENGR& 114.

TCC supports a local chapter of the ASME (American Society of Mechanical Engineers) and encourages student involvement.

### **ENGR& 104 Introduction to Engineering and Design (5)**

(Formerly ENGR-100) Introduction to the engineering profession and its design process by building group skills, understanding the effects of different learning styles, producing strategies for innovation, and fostering creativity in problem solving. Includes design projects, journal keeping, professionalism and ethical issues, and oral presentations. Acquaints students with disciplines and opportunities in engineering. *Prerequisite: ENGL/ 095 and MATH 090 or MATH 093 with a minimum grade of C or equivalent.*

## Engineering

### **ENGR& 114 Engineering Graphics (5)**

(Formerly ENGR-123) An introduction to Computer Aided Design (CAD) using software based on parametric solid modeling. Students will use the software to create virtual models, show the models in various projections and views, manage the associated computer files, and produce engineering drawings. The course includes the engineering graphics topics of three-dimensional visualization, sketching, displaying solid objects in two-dimensional views, dimensioning, and reading engineering drawings.

*Prerequisite:* ENGL/ 095 and MATH 090 or MATH 093 with a minimum grade of C or equivalent.

### **ENGR& 170 Introduction to Materials Science (5)**

Fundamental principles of structures and properties of materials used in engineering practice. Topics covered in this course include structures-properties relationship, imperfections of materials, diffusion, phase equilibrium and transformation, and application and processing of materials in engineering practice. Metal, ceramics, polymeric, and composite materials. Mechanical, chemical, and electrical properties of materials.

*Prerequisite:*

CHEM& 162 (may be taken concurrently) and MATH& 141

### **ENGR& 204 Electrical Circuits (6)**

(Formerly ENGR 215) An introduction to electrical engineering through basic circuit and system concepts. Topics include: resistors, sources, capacitors, inductors, operational amplifiers, node and mesh analysis, Thevenin and Norton equivalents, RLC circuits, phasors and steady state power in AC transmission. Solution of first and second order linear differential equations associated with basic circuit forms will be used. Laboratory activities illustrate principles explored in lecture.

*Prerequisite:* MATH 238 (may be taken concurrently) and PHYS& 222.

### **ENGR& 214 Statics (5)**

(Formerly ENGR-210) Scalar and vector analysis of two, and three-dimensional static structures. Topics include: vector notation, equilibrium, moments, couples, distributed loads, resultants, trusses, frames and machines, center of mass, inertia, shear and bending moment diagrams, and friction.

Includes a team project.

*Prerequisite:* PHYS& 221 and MATH& 153.

### **ENGR& 215 Dynamics (5)**

(Formerly ENGR-230) Dynamics of particles and rigid bodies, using the vector notation. Topics covered in this course include: kinematics, kinetics, rectangular coordinates, normal and tangent coordinates, polar coordinates, curvilinear motion, work, energy, impulse, momentum, impact, steady mass flow, rotation, absolute motion and relative motion. Includes design project.

*Prerequisite:* ENGR& 214 and MATH& 153.

### **ENGR& 224 Engineering Thermodynamics (5)**

(Formerly ENGR-260) Introduction to principles of thermodynamics from a predominantly macroscopic point of view. Development of the basic laws of thermodynamics and their application to energy transformation and state changes in engineering problems. Topics include work, heat, energy, entropy, specific heat, open and closed system analysis, and applications to devices and systems. Simple power and refrigeration cycles, including Carnot, Otto, Diesel, Brayton and Rankine are introduced.

*Prerequisite:* PHYS& 221, MATH& 152 and CHEM& 161.

### **ENGR& 225 Mechanics of Materials (5)**

(Formerly ENGR-220) An introduction to the concepts of stress, strain, deformation, and failure theory in solid materials.

Applies mechanics of materials concepts to structural and machine elements in tension, compression, bending, and torsion. Topics include deformation of members, Poisson's ratio, stress concentrations, thermal stress, statically indeterminate techniques, flexure formula, shear formula, stress transformation, Mohr's circle, strain gauges, deflections, and columns. Includes a design project.

*Prerequisite:* MATH& 153 (may be taken concurrently) and ENGR& 214.

### **ENGR 240 Applied Numerical Methods (5)**

Numerical solutions to problems in engineering and science using modern scientific computing tools. Application of mathematical judgment in selecting computational algorithms and communicating results. Introduction to MATLAB programming for numerical computation.

*Prerequisite:* MATH& 153.

*Recommended:* MATH 220.

### **ENGR 299 Independent Study (1-5)**

Independent design, observation, analysis, and reporting of an engineering project or topic.

*Prerequisite:* Instructor permission.

## English: Composition

Students enrolled in the English for Academic Purposes program are strongly advised to complete the program before attempting the English program designed for native speakers. Courses numbered below 100 cannot be applied towards certificate or degree requirements.

Basic Education for Adults offers affordable alternatives to ENGL/ 085 and 095. See BEdA section on page 156 for more detail.

### **ENGL/ 085 Academic Reading and Writing I: Foundations (7-10)**

A pre-college course that integrates basic reading, critical thinking, and writing, using materials that present a variety of perspectives from across the curriculum. This course prepares students for entry into English 095. Course work emphasizes applying the reading and writing process in various contexts both inside and outside the classroom, developing information literacy, communicating a critical awareness of the relationship between power and literacy, identifying and interpreting relationships to text, self and community, and navigating complex reading in multiple situations, disciplines, and text. Classes may be offered in an e-learning format.

*Prerequisite:* EAP 155 and EAP 159 with a minimum grade of C or assessment into ENGL 085/ or equivalent. *Cross listed courses:* ABE 074, ABE 075, ABE 077, ABE 078, ABE 079.

### **ENGL/ 095 Academic Reading and Writing II: Threshold (7-10)**

A pre-college course that integrates reading, critical thinking, and writing, using materials that present a variety of perspectives from across the curriculum. This course prepares students for entrance into ENGL&101 and other college-level courses. Course work focuses on emphasizing the reading and writing process in various contexts as well as research, both inside and outside the classroom, developing information literacy, communicating a critical awareness of the relationship between power and literacy, identifying and interpreting relationships to

text, self and community, and navigating complex reading in multiple situations, disciplines, and text. Students will use technology to complete informal and formal writing assignments. Classes may be offered in an e-learning format.

*Prerequisite:* EAP 154 with; or both EAP 155 and EAP 159; or ENGL/ 085 with a minimum grade of C or equivalent; or ABE 074, ABE 075, ABE 077, ABE 078, or ABE 079 with a minimum grade of C. *Cross listed courses:* ABE 094.

### **ENGL& 101 English Composition I (5)**

(Previously ENGL-101) Study and application of the principles of college writing. Students read, analyze, and write expository, descriptive, and argumentative essays, as well as learn to develop ideas fully, organize them effectively, and express them clearly. ENGL 101 readings focus on the essay. This course may not be taken "S/U."

*Prerequisite:* ENGL 095 and READ 095 with a minimum grade of C or ENGL/ 095 or ABE 094 with a minimum grade of C or assessment at or above college-level reading and writing.

### **ENGL& 102 Composition II: Argument and Persuasion (5)**

(Formerly ENGL-102) The application and further development of writing principles covered in ENGL&-101. ENGL&-102 is a composition course designed to develop the student's ability to write sound and cogent arguments in several academic disciplines. Course work focuses on strategies for developing convincing evidence, with emphasis on critical thinking and library research skills. This course may not be taken S/U.

*Prerequisite:* ENGL& 101 with a minimum grade of C.

### **ENGL 103 Composition III: Writing about Literature (5)**

The application and further development of writing principles covered in ENGL&-101. The writing - primarily analytical - is based on the reading and discussion of literature. This course may not be taken S/U.

*Prerequisite:* ENGL& 101 with a minimum grade of C.

### **ENGL 180 Una Voce Workshop (2)**

Una Voce Workshop provides practical, hands-on experience at every stage of the production of a magazine: solicitation of essays, selection of submissions, arrangement of submissions, writing of introductions, proofreading, and publication.

*Prerequisite:* ENGL& 101 with a minimum grade of C.

### **ENGL& 235 Technical Writing (5)**

(Formerly ENGR 231) A practical course in organizing, developing and writing technical information, including reports. Attention given to organizational patterns and report formats common to scientific and technical disciplines and technical writing conventions, including headings, illustrations, style and tone.

*Prerequisite:* ENGL& 101 with a grade of C or higher.

### **ENGL 301 Professional Writing and Communication in Health Care (5)**

This course will expose the learner to professional writing and communication in the healthcare field. Students will explore methods of writing persuasive requests, justifying decisions through citation of evidence, and communicating complex ideas at the appropriate level of the audience.

*Prerequisite:* Admission into HIM BAS program and ENGL& 101 with a minimum grade of C.

*Recommended preparation:* ENGL& 102 with a minimum grade of C.

## English: Literature

### **ENGL 178 Trillium Production Workshop (2)**

(Formerly ENGL 179) Course covers the basics of editing, design, and production of a literary magazine offering practical hands-on experience.

*Prerequisite: Instructor permission.*

### **ENGL& 220 Introduction to Shakespeare (5)**

(Formerly ENGL-250) Introduction to Shakespeare through a study of several of his tragedies, histories, comedies, and sonnets. (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### **ENGL& 226 British Literature I (5)**

(Formerly ENGL 264) Survey of British literature from its beginnings to the Renaissance up to 1600 examining the following literary periods or genres: Old English, Middle English and the English Renaissance. Writers may include Chaucer, Malory, Milton, Jonson, and Shakespeare. Writing assignments—primarily analytical—are based on the reading, research and discussion of literature. (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### **ENGL& 227 British Literature II (5)**

(Formerly ENGL 265) Survey of British literature from 1600 to 1780 examining the following literary periods or genres: Elizabethan Age, Neoclassical Period, Restoration Period, Age of Sensibility and early Romanticism. Writers may include Sidney, Raleigh, Bacon, Blake, Dryden, Locke, Pope, Johnson, Fielding, and Donne. Writing assignments—primarily analytical—are based on the reading, research and discussion of literature. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### **ENGL 234 Introduction to Mythology and Folk Stories (5)**

A comparative study of myths and folklore throughout the world. Emphasis is on the commonality of concerns and values expressed by both western and non-western cultures and on the literary value of myths and folklore. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade C or equivalent.*

### **ENGL 242 Contemporary Non-Western Literature (5)**

A survey of contemporary non-Western literature. Various cultural and historical themes will be studied from quarter to quarter. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C or equivalent.*

### **ENGL& 244 American Literature I (5)**

(Formerly ENGL 267) Survey of American literature from the beginnings through the Civil War. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C or equivalent.*

### **ENGL& 245 American Literature II (5)**

(Formerly ENGL 268) Survey of American literature from the Civil War to the eve of World War I examining the current literary periods or genres: Slave and Abolition narratives, Transcendentalism, Pastoral Tradition, Naturalism, Early Feminism, American Gothic, Expressionism, and Romanticism. Writing assignments, primarily analytical, are based on the reading, research and discussion of literature. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C or equivalent.*

### **ENGL& 246 American Literature III (5)**

(Formerly ENGL 269) Survey of American literature from 1910-1960 examining the current literary periods: Imagism, Confessional Poetry, Beat Generation, Lost Generation, Southern Renaissance, Harlem Renaissance, Modernism, Realism, Naturalism, Post-Modernism, and Metafiction.

Writing assignments, primarily analytical, are based on the reading, research and

discussion of literature. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C or equivalent.*

### **ENGL 261 The Bible as Literature (5)**

The Bible as Literature examines the Bible, both the Hebrew Bible and the Christian Testament, as a collection of literary works. Students learn to recognize plot, theme, character, setting, style, and figurative language and to consider the interaction of those elements. They also learn about the history of the composition, transmission, and translation of the works. There is emphasis on the original cultural context of the stories and on the ways they have been revised and reinterpreted in other cultures. The purpose of the course is not to supplant the Bible as a religious text, but to enhance each student's appreciation of the Bible regardless of his or her religious convictions. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### **ENGL 262 Children's Literature (5)**

Children's Literature is the study of classic and contemporary fiction and poetry for children, from the early reading levels through high school. Although the course is intended for students who plan to become teachers, it is open to all students who meet the prerequisites. Students examine and critique a variety of works on the basis of the elements of literature, such as plot, character, theme, setting, and style. They research the historical contexts of the works. They present their critiques and findings in written form, along with specific suggestions for teaching the works. (multicultural content) (writing intensive)

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### **ENGL 271 Contemporary American Fiction (5)**

Study of American fiction written since 1960 with an emphasis on the major writers and themes of contemporary fiction. (multicultural content) (writing intensive)

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

## English: Literature

### **ENGL 276 Creative Writing: Fiction (3)**

A workshop for the writing of fiction (short story, novel), with particular attention to techniques used by contemporary authors. Course is flexible to meet needs of individual students. Performance/skills course. (writing intensive)

*Prerequisite:* ENGL& 101 with a minimum grade of C.

### **ENGL 278 Creative Writing: Poetry (2)**

A workshop for the writing of poetry, and the study and analysis of poetry techniques. Course is flexible to meet the needs of the individual students and may be repeated.

Performance/skills course. (writing intensive)  
*Prerequisite:* ENGL& 101 with a minimum grade of C.

### **ENGL 279 Creative Writing: Poetry Workshop (2)**

A workshop for the writing of poetry, and the study and analysis of poetry techniques. Instruction is flexible to meet the needs of individual students. (writing intensive)

*Prerequisite:* ENGL& 101 with a minimum grade of C.

### **ENGL 280 Literatures of Diversity (5)**

An introduction to the literatures of various cultures. Includes a study of historical and cultural context within which the literature evolved. Various single authors or a combination of authors will be studied from quarter to quarter. May be taken twice as cultures or authors covered are different each offering. (multicultural content) (writing intensive)

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### **ENGL 299 Independent Study (1-5)**

Individual study, project-oriented. Instructor permission required and the successful completion of ENGL& 101 and 102.

*Prerequisite:* Program Chair approval

## Environmental Science

Students seeking courses for general interest or degree distribution requirements may consider any environmental science courses.

Students intending to major in Environmental Science at a baccalaureate institution should work towards an Associate of Science degree with an Environmental Science specialization and consult with an environmental science advisor in the biology or earth science departments.

### **ENVS& 101 Introduction to Environmental Science (5)**

(Formerly ENVSC 106) An interdisciplinary science course for both non-science majors and beginning science students.

Topics such as overpopulation, energy, biodiversity, climate change, and pollution are covered. Underlying scientific principles are identified and related to relevant global, national and local perspectives. Laboratories and field trips included.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent.

### **ENVS 179 Special Topics in Environmental Science (2)**

Specific environmental topics will be explored using a variety of methods which may include seminars, lectures, research projects, presentations, laboratory experiments, field work, and all-day or overnight field trips depending on the quarter offered. Topics for any one quarter may include biodiversity, toxins and human health, invasive species, water quality, climate change etc.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent.

### **ENVS 210 Maps, GIS and the Environment (5)**

Introduces students to the elements of geographic information systems (GIS) including cartography, data structure, map overlays, and spatial analysis. Applications of GIS to environmental issues relating to hydrology and watershed management, soil science, land-use planning, and conservation are explored in a hands-on style, incorporating both field activities and GIS software. This course is the same course as GEOG 210. Students may receive credit for either ENVS 210 or GEOG 210 but not both. Laboratories and field trips included.

*Prerequisite:* ENGL/ 095 with a minimum grade of C and either MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.



## Experiential Learning

### **EXPLR 190 Electronic Portfolio (2)**

Students will clarify their educational intent, study academic standards and work independently. They create inventories of prior learning, participate in discussions, share and collect feedback about experiential learning. Students combine theory with practice through reflective assignments. They develop a professional portfolio for prior learning assessment, transfer and/or future employers.

### **EXPLR 290 Internship Experience (3)**

Transfer students may enroll in a work experience internship related to their major area of interest. The work experience may be in either a private or public sector organization. Course includes an orientation, training, site supervision and hour reporting. Internship orientation, mentoring and reporting will be done through Transition Services.

### **EXPLR 295 Service Learning Experience (2)**

This course assists students to develop a greater civic awareness and engagement. Students complete an orientation, complete 30-60 service hours and participate in an online classroom. Students combine theory with practice through reflective assignments. When combined with EXPLR-296, this class satisfies the culminating project requirements for local school districts.

### **EXPLR 296 Capstone Experience (1)**

This course will assist students to develop an overarching view of their learning through a capstone experience bridging their classroom and community experiences. Students develop a portfolio of their work, prepare a scholarly paper reflecting the knowledge and skills acquired through their external experience and deliver a public presentation.

*Prerequisite: EXPLR 295.*

## Fresh Start

### **FRSH 098 English - Fresh Start (5)**

Introduction to literacy and study skills for beginning students enrolled in the Fresh Start program. Academically, the focus is on developing competence in Reading, English, and Technology, but instruction is also provided for social development and is aimed at providing students with skills to be resilient and to focus on program completion.

### **FRSH 100 Pathways to College Success (5)**

This course is designed as an introduction to college for students entering the Fresh Start program. Its purpose is to prepare students to meet the demands of college, understand the expectations of instructors, develop social skills, and improve life management techniques in order to increase their success once they transition into regular TCC courses. Topics will include goal setting, time management, values identification, conflict management, problem solving, and resource identification.

## Geography

### **GEOG 205 Physical Geography (5)**

Study of the formation and evolution of the physical features of the earth, including the atmosphere, climate, and weather; rocks, minerals, vegetation, and soils; erosion and modification of the earth's surfaces; and human impact and modification. Laboratory included.

*Prerequisite: ENGL/ 095 with a minimum grade of C and MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **GEOG 210 Maps, GIS and the Environment (5)**

Introduces students to the elements of geographic information systems (GIS) including cartography, data structure, map overlays, and spatial analysis. Applications of GIS to environmental issues relating to hydrology and watershed management, soil science, land-use planning, and conservation are explored in a hands-on style, incorporating both field activities and GIS software. This course is the same course as ENVS 210. Students may receive credit for either GEOG 210 or ENVS 210 but not both. Laboratories and field trips included.

*Prerequisite: ENGL/ 095 with a minimum grade of C and MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

## Geology

Students seeking courses for general interest or degree distribution requirements may consider any of the Geology courses except GEOL 299 for the Associate of Arts, General Studies and Applied Sciences degrees. Students intending to major in Geology at a baccalaureate institution should work towards an Associate of Science degree with an Earth Sciences Specialization and consult with the earth sciences advisor.

### **GEOL& 101 Introduction to Physical Geology (5)**

(Formerly GEOL 101) Introduces students to the materials and landscapes of the earth and the diverse geological processes that produce and change them. Subjects include rock formation, volcanoes, glaciers, rivers, and earthquakes. The laboratory includes various activities such as studying rock and mineral specimens, and local field trips.

*Prerequisite: ENGL/ 095 with a minimum grade of C and MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **GEOL 108 Fossils and the History of Life (5)**

Introduction to the geological and biological processes and events that generated the amazing record of life on earth. Topics include plate tectonics, rocks, fossilization processes, principles of evolution, and a survey of the history of life. Lab includes studying rock and fossil specimens and involves field trips.

This course is the same as BIOL 105.

Students may receive credit for either GEOL 108 or BIOL 105 but not both.

*Prerequisite: ENGL/ 095 with a minimum grade of C and MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **GEOL 125 Geology in the Field (5)**

An intensive course in introductory geology, covering the fundamental principles of physical geology and an introduction to field methods. Extended field trip required. Exact itinerary varies quarterly. Laboratory included.

*Prerequisite: ENGL/ 095 with a minimum grade of C and MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **GEOL 179 Special Topics in Geology (1-5)**

These are seminars designed to provide geology students with the opportunity to study selected geologic topics and techniques. Topics and/or techniques covered will generally be determined by the instructor but may also reflect the expressed need or interest of students in the earth science program. The seminars will be comprised of lecture, laboratory and fieldtrip activities in varying proportions depending on the specific topic and needs of participating students.

### **GEOL& 208 Geology of the Pacific Northwest (5)**

(Formerly GEOL 208) Study of the geologic history of the Pacific Northwest. Emphasis on both the role of plate tectonics in assembling the region as well as how surface processes such as rivers and volcanism have shaped the landscapes of the area. Field trips required. Laboratory included.

*Prerequisite: ENGL/ 095 with a minimum grade of C and MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **GEOL 299 Independent Study in Geology (1)**

Independent study of selected geologic topics.

*Prerequisite: Instructor permission.*

## German

The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology.

Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum.

### **GERM& 121 German I (5)**

(Formerly GERM-101) This is the first quarter course in the sequence of GERM& 121, GERM& 122, and GERM& 123. The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology.

Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### **GERM& 122 German II (5)**

(Formerly GERM-102) GERM& 122 is the second quarter course in the sequence of GERM& 121, GERM& 122, and GERM& 123. The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)

*Prerequisite: GERM& 121 with a minimum grade of C or instructor permission.*

## German

### **GERM& 123 German III (5)**

(Formerly GERM-102) GERM& 122 is the third quarter course in the sequence of GERM& 121, GERM& 122, and GERM& 123. The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum. This course satisfies the Multicultural distribution requirement. (Multicultural Course)

*Prerequisite: GERM& 122 with a minimum grade of C or instructor permission.*

### **GERM 201 Intermediate German I (7.5)**

The second year intermediate level German language sequence consists of 201 and 202 (consistent with PLU's intermediate sequence). GERM 201 is the first semester of the sequence. Classes will focus on continued development of listening, speaking, reading and writing skills in the German language, using authentic materials that reflect contemporary life as well as German cultural heritage.

*Prerequisite: GERM& 123 with a minimum grade of C and permission of the chair of World Languages.*

### **GERM 202 Intermediate German II (7.5)**

The second year intermediate level German language sequence consists of 201 and 202 (consistent with PLU's intermediate sequence). GERM 202 is the second semester of the sequence. Classes will focus on continued development of listening, speaking, reading and writing skills in the German language, using authentic materials that reflect contemporary life as well as German cultural heritage.

*Prerequisite: GERM& 201 with a minimum grade of C and permission of the chair of World Languages.*

## Health Information Management

Note: Classes are offered in online format.

### **HIM 299 Individual Study in HIM (1-6)**

Individual study of an aspect of HIM in accordance with the interest and ability of the student and the approval of the instructor. Credits to be arranged on the basis of the nature and extent of the project undertaken. *Prerequisite: Acceptance into the HIM BAS Program - instructor permission only.*

### **HIM 301 Foundations in Health Information (5)**

This course covers foundational Health Information concepts related to healthcare delivery in the United States. Students will be introduced to health record content, health information access and protection, record storage, retention, and destruction, legal principles related to health information, revenue cycle management, and regulatory and legislative initiatives that affect healthcare. *Prerequisite: Acceptance into the HIM BAS Program - instructor permission only.*

### **HIM 310 Data Governance (5)**

This course covers the management of healthcare data including integration needs and the standardization of data. Topics include documentation guidelines, the exchange of data, health information technologies and data integrity.

*Prerequisite: Acceptance into the HIM BAS Program – Instructor permission only.*

### **HIM 320 Healthcare Privacy, Confidentiality, and Security (3)**

This course covers privacy, security and confidentiality of internal and external health information use and exchange. Students will gain knowledge of data quality and monitoring programs and the legal and ethical implications of health data disclosure. Topics will include privacy, confidentiality, security principles, policies, and procedures, health information laws, regulations, and standards, and elements of a compliance program.

*Prerequisite: Acceptance into the HIM BAS Program – Instructor permission only.*

### **HIM 330 Revenue Cycle Management (5)**

This course will cover an in depth analysis of revenue cycle and reimbursement methodologies. Students will learn how to develop and implement healthcare finance and compliance processes in response to increasing demands of the healthcare industry. Topics will include reimbursement management, severity of illness systems, chargemaster management, casemix management, audit processes, and payment systems.

*Prerequisite: Acceptance into the HIM BAS Program – Instructor permission only.*

### **HIM 340 Data Quality Management and Performance Improvement (5)**

This course covers the foundational base that guides facilities in the management and analysis of healthcare data and that ensures data integrity. Topics include quality assessment and management tools, utilization and resource management, risk management, and disease management processes.

*Prerequisite: Acceptance into the HIM BAS Program. Instructor permission only.*

### **HIM 350 Health Information Systems Analysis and Design (5)**

This course will examine the tools and knowledge necessary to take part in the planning, design, selection, implementation, integration, testing, evaluation, and support of health information technologies.

*Prerequisite: Acceptance into the HIM BAS Program – Instructor permission only.*

### **HIM 410 Healthcare Compliance (5)**

This course will evaluate current laws and standards related to health information initiatives. Students will study the link between regulatory compliance, revenue cycle and quality of care. Fraud and abuse trends will be discussed with an emphasis on establishing and managing policies and procedures for compliance.

*Prerequisite: Acceptance into the HIM BAS Program. Instructor permission only.*

## Health Information Management

### HIM 420 Human Resource Management and Leadership (5)

This course covers theories and best practices of human resource management in healthcare. Topics will include leadership styles, workplace diversity, forming quality work teams, equal opportunity, work analysis, staffing, training and development, performance appraisals, compensation, and grievance procedures.

*Prerequisite: Acceptance into the HIM BAS Program – Instructor permission only.*

### HIM 430 Data Analytics (5)

This course covers methods for extracting and analyzing data for decision making. Students will learn to analyze clinical data to identify trends. Students will gain knowledge of database querying, data exploration, and mining techniques to facilitate information retrieval.

*Prerequisite: Acceptance into the HIM BAS Program - instructor permission only.*

### HIM 440 Organizational Management in Healthcare (5)

This course covers the foundational tools to effectively create and implement organizational management policies and procedures in a healthcare environment.

*Prerequisite: Acceptance into the HIM BAS Program – Instructor permission only.*

### HIM 450 HIM Professional Practice Experience (3)

This course covers an environmental scan of emerging issues and trends in the HIM field. Students will focus on individualized projects that showcase their knowledge. All students will be paired with local health care institutions that will provide students with the opportunity to reinforce their competencies and skills sets.

*Prerequisite: HIM 310, HIM 320, HIM 330, HIM 340, HIM 350, HIM 410, HIM 420 and HIM 430 with a minimum grade of C; and HIM 440 with a minimum grade of C or concurrent enrollment.*

### HIM 455 HIM Capstone (2)

This course includes the creation of a culminating project focused at educating the public on current issues surrounding health information management.

*Prerequisite: HIM 310, HIM 320, HIM 330, HIM 340, HIM 350, HIM 410, HIM 420, and HIM 430 with a minimum grade of C; and HIM 440 with a minimum grade of C or concurrent enrollment.*

## Health Information Technology

### HIT 105 Comprehensive Medical Terminology (5)

(Formerly HIM 105) This course covers the comprehensive study of roots, prefixes, suffixes, principles of word building, study of diagnostic, operative, and symptomatic terms of body systems with an emphasis on accurate spelling and pronunciation of all medical terms; study of medical abbreviations, eponyms, clinical laboratory and radiology terminology. Introduction to common diseases and pharmacology also included. This course is intended for Health Information Technology students. Taking both HIT 130/131 is equivalent to HIT 105.

*Prerequisite: BIOL& 175 with a minimum grade of C.*

### HIT 110 Health Care Delivery Systems (5)

(Formerly HIM 110) This course covers healthcare delivery systems in the United States. Students will identify laws, regulations, standards, initiatives, and payment systems, and policies and procedures applicable to the various healthcare organizations. Students will learn the roles and disciplines of providers through the continuum of healthcare in the United States.

*Prerequisite: ENGL& 101, BIOL& 175 and HIT 105 with a minimum grade of C; and either MATH& 146 with a minimum grade of C or both MATH 093 and MATH 136 with a minimum grade of C.*

### HIT 125 Record Content and Standards I (5)

(Formerly HIM 125) This course covers the structure and format of health records across various settings as well as storage systems used in Health Information Management. Students will gain insight into the numerous databases, registries, and indices used in healthcare. Federal and state regulations involving Health Information Management will also be addressed.

*Prerequisite: ENGL& 101, BIOL& 175 and HIT 105 with a minimum grade of C; HIT 110 with a minimum grade of C or concurrent enrollment; and either MATH& 146 or both MATH 093 and MATH 136 with a minimum grade of C.*

## Health Information Technology

### **HIT 126 Health Information Technologies (5)**

(formerly HIT 115) This course covers healthcare information systems and concepts such as EHR, PHR, CPOE systems, data storage, retrieval, and security. Students will evaluate communication and Internet technologies in common software applications utilized in healthcare.

*Prerequisite:* HIT 110 and HIT 125 with a minimum grade of C.

### **HIT 130 Medical Terminology I (3)**

(Formerly HIM 130) This course covers the study of roots, prefixes, suffixes; principles of word building, study of diagnostic, operative, and symptomatic terms of body systems, emphasis on accurate spelling and pronunciations; study of medical abbreviations, selected eponyms, clinical laboratory and radiology terminology. Course covers multiple systems with a focus on musculoskeletal, respiratory, and cardiovascular systems.

### **HIT 131 Medical Terminology II (5)**

(Formerly HIM 131) This course covers the continuing study of selected roots, prefixes and suffixes; principles of word building; study of diagnostic, operative, and symptomatic terms of body systems with emphasis on accurate spelling and pronunciation of all medical terms; study of medical abbreviations, selected eponyms, clinical laboratory and radiology terminology.

### **HIT 141 Outpatient Diagnostic Coding (2)**

(Formerly HIM 141) Instruction to the basic principles of diagnostic coding. Designed as an introductory course for beginners. Focus is on diagnostic coding in the outpatient care setting.

*Prerequisite:* HIT 105 with a minimum grade of C; and either HIT 110 or MO 101 with a minimum grade of C.

### **HIT 145 Healthcare Statistics (2)**

(Formerly HIM 145) This course covers common statistics found in healthcare, to include length of stay and death/autopsy/infection/birth rates. Students will be exposed to proper graphics used in statistics, identification of data sources, and use of reliable resources for research.

### **HIT 160 Pathophysiology (5)**

(Formerly HIM 160) Selected general medical conditions and diseases of specific body systems, including etiology, signs, symptoms, diagnostic procedures, clinical course, therapy and prognosis will be discussed.

*Prerequisite:* HIT 105, HIT 110 and HIT 125 with a minimum grade of C.

### **HIT 165 Pharmacology for Health Information Technology (2)**

(Formerly HIM 150 and HIT 200) This course covers an introduction in pharmacology for health information technicians to include terminology, drug classification and usage. This course emphasizes the clinical application of medications and treatment of disease.

### **HIT 170 CPT Coding (5)**

(Formerly HIM 216) Instruction in basic, comprehensive, and more advanced aspects of coding with Current Procedural Terminology (CPT-4) for use in various health care settings. Designed to provide the student with an understanding of CPT coding guidelines, rules, and regulations; a basic understanding of HCPCS Level II Coding; a basic working knowledge of E/M coding methods; and a thorough working knowledge of CPT-4.

*Prerequisite:* HIT 141 or HIT 140 with a minimum grade of C.

### **HIT 173 Data Analytics (5)**

This course covers the basic fundamentals of data analytics, to include using statistics, identifying trends, researching methodologies, and making decisions based off results of analysis. Topics will include taxonomies, nomenclatures, and terminologies required for healthcare analytics.

### **HIT 175 Data Quality and Performance Improvement (5)**

(Formerly HIM 241) This course covers the study and application of continuous quality improvement, utilization management, and standards for hospital accreditation and licensure. This course also addresses the role of the Joint Commission, government agencies, and the use of vital statistics.

*Prerequisite:* HIT 173 with a minimum grade of C.

### **HIT 176 Advanced Outpatient Coding (5)**

(Formerly HIT 152) This course covers advanced coding principles in the outpatient setting for the more difficult sections of the coding system. Course includes extensive advanced practice using coding exercises and abstracted medical records in a virtual environment.

### **HIT 179 Ethical Issues in Health Information Technology Seminar (1)**

Students will discuss current ethical issues in Health Information Management (topics change each quarter)

*Prerequisite:* HIT 110 and HIT 125 with a minimum grade of C or concurrent enrollment.

### **HIT 186 Outpatient Coding Clinical (2)**

(Formerly HIM 186) Students will apply skills and knowledge acquired in previous courses to outpatient coding settings in the community.

*Prerequisite:* HIT 176 with a minimum grade of C or concurrent enrollment.

### **HIT 195 Health Law and Ethics (3)**

(Formerly HIM 195) This course covers the legislative and regulatory process, laws, regulations, and policies and procedures pertaining to confidentiality, privacy, release of information, and professional and practice-related ethical issues.

*Prerequisite:* HIT 110, 125 and 126 with a minimum grade of C.

*Recommended Preparation:* ENGL& 102 or ENGL& 235 with a minimum grade of C.

### **HIT 221 Intermediate Coding (5)**

(Formerly HIM 221) This course covers the coding rules and guidelines surrounding inpatient diagnostic and procedural coding using ICD 10 CM and ICD 10 PCS.

*Prerequisite:* HIT 141 and HIT 160 with a minimum grade of C.

### **HIT 225 Record Content and Standards II (5)**

(Formerly HIM 225) This course covers healthcare data requirements, including Joint Commission standards, Governmental regulations, corporate compliance, and HIPAA applications in healthcare settings.

*Prerequisite:* HIT 173 and HIT 195 with a minimum grade of C.

## Health Information Technology

### **HIT 230 Revenue Cycle (5)**

(Formerly HIT 210) This course covers healthcare reimbursements and various payment methodologies used in healthcare in the United States. Students will gain an understanding of the importance of coding and compliance and its impact on healthcare reimbursements and the revenue cycle process. In addition students will learn about the importance of linking quality to reimbursements and how third-party payers are implementing various value-based purchasing and pay-for-performance criteria in healthcare. Students will be exposed to the practice of calculating various payment methodologies frequently used in healthcare. *Prerequisite: HIT 170, HIT 175, HIT 221 and HIT 225 with a minimum grade of C.*

### **HIT 235 Health Records in Alternative Care (2)**

(Formerly HIT 222) This course covers health record systems for alternative sites such as psychiatric, long-term care, home health, and hospice. The course includes coding compliance, licensure and accreditation standards.

### **HIT 242 Leadership and Management I (5)**

(Formerly HIM 153) This course covers oversight duties in a healthcare office to include managing the revenue cycle, compliance regulations, human resources, health information, and general business processes. *Prerequisite: HIT 173, 221 and 225 with a minimum grade of C.*

### **HIT 245 Advanced Coding and Compliance (5)**

(Formerly HIM 245) This course covers advanced application and instruction on the more difficult sections of the coding systems for both inpatient and outpatient coding. Topics also include coding compliance issues. Discussion of legacy and alternative coding systems is also included in this course. *Prerequisite: HIT 170, 221 and 230 with a minimum grade of C.*

### **HIT 250 Inpatient Coding Professional Practice Experience (2)**

(Formerly HIM 250) This professional practice experience allows students to apply skills and knowledge acquired in previous courses to the outpatient coding setting. *Prerequisite: HIT 245 with a minimum grade of C.*

### **HIT 254 HIT Capstone (5)**

(Formerly HIM 254) This course is the culminating class for the HIT program. Students will participate in leadership projects, create capstone projects to strengthen their AHIMA Entry Level Competencies, prepare for the national Registered Health Information Technician exam, and prepare for employment. *Prerequisite: HIT 210, 235, and 245 with a minimum grade of C; HIT 242 with a minimum grade of C or concurrent.*

### **HIT 255 HIT Professional Practice Experience (5)**

(Formerly HIM 255) Students will apply skills and knowledge acquired in previous courses in their professional practice experiences. *Prerequisite: HIT 254.*

### **HIT 279 Ethical Issues in Healthcare Leadership (1)**

Students will discuss the implications of ethics in healthcare leadership. Focus of discussion will change quarterly.

### **MO 101 Healthcare Delivery and Alternate Care (5)**

Students will be introduced to the many types of health care delivery systems in the United States. Students will identify laws, regulations, standards, initiatives, and payment systems; policies and procedures applicable to the various health care organizations. Students will gain an appreciation of the roles and disciplines of the providers throughout the continuum of health care in the U.S.

### **MO 110 Medical Office Procedures (5)**

This class covers customary daily activities of a medical office including computerized appointment setting, insurance verification and compliance, chart maintenance, documentation creation, filing, customer service skills, confidentiality, patient referrals, and being part of the healthcare team. *Prerequisite: CU 105, MO 101 and HIT 130 with a minimum grade of C.*

### **MO 115 Medical Scribe (4)**

This course provides students with skills necessary to enter information into a patient's electronic health record or chart at the direction of a physician or licensed independent practitioner. Topics include Basic Coding, HIPAA Compliance, Medico-legal risk mitigation, EHR functionality, elements of documentation, CMS Physician Quality Reporting Systems, The Joint Commission's Accountability Measures, and a general knowledge of the roles and responsibilities of medical personnel. *Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment; HIT 105 with a minimum grade of C or equivalent; and either BIOL& 175, BIOL& 241 or BIOL& 242 with a minimum grade of C or concurrent enrollment.*

### **MO 143 Medical Office Professional Development and Ethics (3)**

This course covers professional development and ethical issues in the medical office. Students will prepare professional portfolios to showcase skills. Students will discuss interviewing techniques. This course will cover professional ethics.

### **MO 151 Insurance/Claims Processing (5)**

(Formerly HIT 151) This course is designed to introduce information about major insurance programs and federal healthcare legislation, provide a basic knowledge of national diagnosis and procedural coding systems, and learn to simplify the process of completing claims. *Prerequisite: MO 101, 110 and HIT 141 with a minimum grade of C; and either MO 159 or HIT 170 with a minimum grade of C.*

### **MO 159 Introduction to Outpatient Procedure Coding (4)**

This course covers procedural coding used in hospitals, physicians offices and medical clinics serving outpatients at an introductory level. Familiarization with basic coding concepts in procedure coding to include CPT and HCPCS. Emphasis is on CPT ambulatory services coding. Discussion of coding for medical necessity.

## Health Information Technology

### MO 185 Medical Reimbursement Specialist Clinical (3)

(Formerly HIT 185) Students will apply skills and knowledge acquired in previous courses to medical reimbursement settings in the community.

*Prerequisite:* MO 151 with a minimum grade of C or concurrent enrollment.

### OLL 101 Success in Online Learning (3)

This course will help prepare students for success in online courses in any discipline. Students will explore strategies for online communication, identify online tools and resources, identify problem solving techniques for technology, and identify coping skills for working in an online environment.

This course is open to all students.

## History

### HIST& 126 World Civilizations I (5)

(Formerly HIST 111) Historical study of human societies in the world, with emphasis on their interactions with each other and the continuous transitions of their traditions from antiquity to the 9th century.

(multicultural content)

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HIST& 127 World Civilizations II (5)

(Formerly HIST 112) Historical study of human societies in the world, with emphasis on their interactions with each other, and the continuous transitions of their traditions from the 9th to the 18th century.

(multicultural content)

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HIST& 128 World Civilization III (5)

(Formerly HIST 113) Historical study of human societies in the world, with emphasis on their interactions with each other, and the continuous transitions of their traditions from the 18th century to the present.

(multicultural content)

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HIST& 146 U.S. History I (5)

(Formerly HIST 241) The course will explore the key political, social, cultural, and economic events in the American colonies in the 17th and 18th centuries. Discussions will focus on the individuals, issues, ideas, and events most responsible for shaping modern America.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HIST& 147 U.S. History II (5)

(Formerly HIST 242) The course will explore the key political, social, cultural, and economic events in American society in the 19th Century. Discussions will focus on the individuals, issues, ideas, and events most responsible for shaping modern America.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HIST& 148 U.S. History III (5)

(Formerly HIST 243) The course will explore the key political, social, cultural, and economic events in American society in the 20th Century. Discussions will focus on the individuals, issues, ideas, and events most responsible for shaping modern America.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HIST 210 History of Modern Europe (5)

An introduction of the common heritage, global dynamics, and historical components that crafted the making of modern Europe. The course will assess the unfolding historical events from the 17th century up to the present, examining major societies in the region, including British, French, German, Italian, and Russian societies, among others. The focus will be on the interactions among Europe's different societies, and between Europe and the larger world.

(multicultural content)

*Prerequisite:* ENGL& 101 with a minimum grade of C or concurrent enrollment.

### HIST 211 History of China (5)

Historical study of human societies in China, with emphasis on their interactions with other societies in the greater world, and the continuous transitions of their traditions from antiquity to the present. (multicultural content)

*Prerequisite:* ENGL& 101 with a minimum grade of C or concurrent enrollment.

### HIST& 214 Pacific NW History (5)

(Formerly HIST 264) The course will examine the exploration, settlement and growth of the Pacific Northwest, with an emphasis on Washington State. Topics will include the settlement and creation of Washington Territory, as well as the social, economic and political issues that have shaped Washington State in the 19th and 20th centuries.

*Prerequisite:* ENGL& 101 with a minimum grade of C or concurrent enrollment.

## History

### **HIST& 219 Native American History (5)**

(Formerly HIST 251) This course will examine the history of Native American cultures in the United States. Through readings, lectures, and class discussions, students will explore the unique histories of several specific Native cultures, as well as the impact that these cultures had in shaping the course of American history. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **HIST& 220 African-American History (5)**

Formerly HIST 254) The course will examine the history of African-Americans in the United States, tracing the African-American experience from colonial times to present-day America. Topics will include the development of the institution of slavery in America, the post-Civil War experience of African-Americans, and the struggle for civil rights and social justice in America in the 20th Century. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **HIST 230 History of Japan (5)**

Historical study of human societies in Japan with emphasis on their interactions with other societies in the greater world, and the transitions of their traditions from antiquity to the present. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **HIST 231 American History, American Film (5)**

This course will examine U.S. History, society and culture since 1929 through the lens of Hollywood feature films. Topics include: the Great Depression, the Cold War at home and abroad, gender roles and the American family, and the civil rights movement. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **HIST 240 Religion in America (5)**

The course will examine the history and impact of different religions and religious ideas in the modern world, with a focus on how these various religions and ideas have impacted the social, political, and cultural history of the United States. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **HIST 244 The 1960s (5)**

This course will examine key political, social, cultural, economic, and diplomatic trends in American society from 1960 to 1974. Topics covered will include John F. Kennedy and the "New Frontier," Lyndon Johnson's "Great Society," the civil rights movement, the women's movement, the war in Vietnam, the anti-war movement, and Richard Nixon and Watergate. Particular focus will be on the individuals, issues, ideas and events most responsible for shaping this period and our understanding of it.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **HIST 249 America and the Rise to Globalism (5)**

This course will survey the United States' rise to world power from 1898 to the present, with particular attention given to the causes and consequences of increased U.S. participation in world affairs, America's initial reluctance and ultimate acceptance of the responsibility of world leadership.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## Human Development

### **HD 098 Managing Math Anxiety (2)**

Increasing our awareness of why we have math anxiety and an appreciation of our own attitudes can actually help us to learn anxiety management tools and strategies to learn math. An emphasis is placed on understanding problem solving techniques and math assertiveness.

*Prerequisite: Concurrent enrollment in any TCC Math course or BUS 110 or instructor permission.*

### **HD 101 Student Success Seminar (3)**

To provide individuals with an opportunity to cultivate the skills necessary to become confident, successful students. Topics may include: personal learning styles, time management, goal setting, test-taking techniques, academic planning, degree audit, self care, money management, relationships, communication, exploring careers, memory techniques, college and community resources, ethics, respecting diversity, and information literacy.

### **HD 105 Career and Life Planning (3)**

Students will assess their unique interests, values, capabilities and personalities as related to career choice and future life planning. Practical and effective job search and decision making skills will be taught, as well as skills to prepare students for an ever-changing world of work.

### **HD 110 Human Relations (3)**

Introductory course in personal growth through interpersonal communication. Primarily an experiential course, designed to facilitate learning and growth in self-awareness, self-esteem, and self-expression, with the goal of promoting positive relationships with others. (multicultural content)



## Human Development

### HD 114 Exploring Human Potential (3)

This course helps students discover and develop their individual potential. Students explore who they are and how to set meaningful goals in their own terms. We identify ways to unlock our individual potential and learn how to establish an action plan for positive change.

### HD 116 Life Choices (3)

Students will increase self-awareness and decision making skills by exploring: adult growth and development; the influence of culture, roles and stereotypes; and steps to successfully navigate the process of constant change and transition.

*Prerequisite: ENGL/ 085 with a minimum grade of C or equivalent.*

### HD 299 Independent Study (1)

Independent observation, analysis and reporting of a selected problem in Human Development.

*Prerequisite: Instructor permission.*

## Humanities

Note: These courses are NOT sequential. Nor is one prerequisite to another.

### HUM& 101 Intro. to Humanities (5)

(Formerly HUMAN-100) An introduction to the humanities through investigation of current cultural events offered by local communities. Study of the arts - painting, sculpture, architecture, drama, film, music and dance - will be enhanced by attending performances and on-location field trips to sites in the community. Students will become familiar with terminology of the arts and with community performance/demonstrations of these same arts. (multicultural content) (writing intensive)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### HUM 110 Introduction to Pacific Rim Cultures (5)

(Formerly HUMAN-110) A general introduction to a Pacific Rim culture (Southeast Asia, China, Japan, Korea, Mexico or Central America) emphasizing history, language, literature, arts, politics, economy, and society. (multicultural content)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent. Recommended Preparation: ENGL& 101 with a minimum grade of C or LS 101 with a minimum grade of C.*

### HUM& 116 Humanities I (5)

(Formerly HUMAN-101) An introduction to the global humanities through the study of six major art forms: literature, drama, music, painting, sculpture, and architecture from the ancient world to 1400. The course will focus on connecting ideas and beliefs with their expressions. (writing intensive)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### HUM& 117 Humanities II (5)

(Formerly HUMAN-102) An introduction to the global humanities through the study of six major art forms: literature, drama, music, painting, sculpture, and architecture from 1400 to 1800. The course will focus on connecting ideas and beliefs with their expressions. (multicultural content) (writing intensive)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### HUM& 118 Humanities III (5)

(Formerly HUMAN-103) An introduction to the global humanities through the study of seven major art forms: literature, drama, music, film, painting, sculpture, and architecture from 1800 to the present. The course will focus on connecting ideas and beliefs with their expressions. (multicultural content) (writing intensive)

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### HUM 120 The American Multicultural Arts Experience (5)

(Formerly HUMAN-120) An introduction to the unique contributions of American art, theater, dance, literature, and/or music by various American ethnic cultures. (multicultural content)

*Prerequisite: ENGL/ 095 with a minimum grade of C or better or equivalent.*

### HUM 130 Introduction to Film (5)

(Formerly HUMAN-130) Study in motion picture techniques and the development of cinema as an art form.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### HUM 179 Themes or Topics in Humanities (Revolving Topics) (5)

(Formerly HUM 260) A study of a theme or topic through its expressions, notably literature, drama, music, film, painting, sculpture and architecture. Various themes or topics will be studied from quarter to quarter. May be taken twice as themes and topics are different each offering.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### HUM 285 The City (5)

(Formerly HUMAN-285) An in-depth study covering history, philosophy, religion, art, architecture and literature of a culturally significant city. A different city, time, and place will be studied each quarter Humanities 285 is offered.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent. Recommended Preparation: ENGL& 101 or LS 101 with a minimum grade of C.*

## Human Services

### HSP 100 Introduction To Human Services (5)

This course provides an overview of the history, philosophy, and present status of the major Human Services delivery systems; examination of the roles of practitioners as well as occupational and educational alternatives for graduates; exploration of services provided by local social service agencies.

*Prerequisite:* ENGL 095 or ENGL/ 095 with a minimum grade of C or assessment at college-level reading and writing.

### HSP 103 Therapeutic Approaches and Techniques (5)

This course examines principles, concepts, and processes related to counseling and interviewing; role and function of the helping professional is examined; counseling and interviewing skills are demonstrated and practiced in class.

*Prerequisite:* ENGL 095 or ENGL/ 095 with a minimum grade of C or assessment at reading and writing.

### HSP 107 Behavioral Health and Wellness (5)

(Formerly HSP 207) This course explores theories and strategies for wellness and self-care. A life-long approach is used to learn relaxation techniques and coping strategies to reduce stress. Therapeutic use of pharmacology and illicit use of drugs and their impact on the community is also examined.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### HSP 112 Best Practices in Human Services (5)

This course examines the fundamental roles and functions of managing client case loads in a variety of systems including substance treatment and social services; Will explore best practices in acquiring client data, documentation, and file management; ASAM criteria for adult and adolescent assessment and treatment planning will be covered.

*Prerequisite:* HSP 100 and HSP 103 with a minimum grade of C; or instructor permission.

### HSP 113 Advanced Helping Strategies (5)

(Formerly HSP 106) This course explores the role of group, family, and treatment systems; strategies for helping in these areas and other relevant Human Services issues will be examined.

*Prerequisite:* HSP 100 and HSP 103 with a minimum grade of C; or instructor permission.

### HSP 117 Ethics and Professional Development (5)

(Formerly HSP 105) This course will examine personal belief systems, ethical principles, and laws related to the Human Services field; Develop critical thinking skills to explore central work-related issues and develop leadership skills while preparing to enter the helping field, internships, and careers.

*Prerequisite:* HSP 100 and HSP 103 with a minimum grade of C; or instructor permission.

### HSP 121 Survey of Addictions and Pharmacology (5)

(Formerly HSP 200) This course is an introduction to the physiological, psychological and socio-cultural aspects of addiction related issues. An overview of the pharmacology of psychoactive drugs including an explanation of the how brain chemistry changes result in compulsive use is examined.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### HSP 126 Cultural Competencies for Human Services (5)

(Formerly HSP 261) This is an online course that will examine the elements that create differences within society. The primary goal of this course is to expose learners to a variety of cultural ideas, promote tolerance for differences, and assist in learning cultural competence when working with diverse populations. Culture, ethnicity, lifestyles, religion, disabilities, age, and gender will be explored to increase awareness of cultural biases and related concerns. (multicultural content)

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent or instructor permission.

### HSP 130 Recovery Education (5)

This course will provide an overview of treatment and recovery from substance abuse dependency and impulse control disorders. Included in this course will be the physiological, psychosocial, and systemic concerns about alcohol/drugs and the related issues of process addictions.

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent; or concurrent enrollment.

### HSP 212 Systems and Case Work (5)

This course examines the systems that support and hinder case work with vulnerable client populations; the unique problems, issues, and concerns of case work with various special needs groups. Information necessary to develop and implement effective, complex, and compounded service plans and how to effectively negotiate social service systems will also be explored.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### HSP 217 Advocacy in Human Services (5)

This course will explore the distinct components of advocacy in the helping professions. Topics to be covered will be: how to identify and challenge oppressive practices, policies, and mindsets; how to defend clients' rights; and how to overcome barriers that prevent clients from having their needs met.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### HSP 218 Trauma Informed Care (5)

This course will explore the definitions of trauma; oppression as a catalyst for trauma; inter-generational, community, and historical trauma; the many ways in which humans express the effects of their traumatic experiences; and what to do to help people heal. In addition, students will identify vicarious/secondary trauma in the helping professions and examine self-care practices to mitigate the effects of exposure to other people's trauma experiences.

*HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.*

## Human Services

### **HSP 224 Dynamics of Family Violence (5)**

(Formerly HSP 214) This course explores the history, philosophy, and present status of violence in the family; examines cultural and social perspectives regarding violence across the life span including child mistreatment, sexual abuse, and elder maltreatment; and exposure to service delivery systems specific to family violence.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### **HSP 230 Co-occurring Disorders Assessment and Treatment (5)**

This course is an overview of co-occurring disorders in behavioral health and Human Services settings. A brief overview of specific mental disorders, substance use disorders, and evidence based strategies used to serve those with co-occurring disorders will be covered. This course will survey effective co-occurring programming, screening processes, and practices used to serve this population.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113, and HSP 117 with a minimum grade of C; and HSP 121 with a minimum grade of C or concurrent enrollment or instructor permission.

### **HSP 241 Working with Youth and Families (5)**

(Formerly HSP 203) This course explores the theory of social learning and application to the development with appropriate social skills. Part of the course learning will occur through the actual experiences of working with children, youth, and families.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### **HSP 245 Sexual Orientation and Gender Identity Issues in Human Services (5)**

This course will explore the field of Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) issues and its relationship to the lives of LGBTQ people, Human Services, and society more broadly. Using intercultural competency development and interdisciplinary approaches, we will incorporate race, class, gender, sexuality, and culture as Human Service issues facing LGBTQ individuals. We will develop professional resources and skills used to develop intercultural competency when serving LGBTQ individuals. Human Services topics will include social and scientific constructions of sexuality and gender; understandings of sexual identity from the ancient world to the current United States; religion and sexual identity; mental health and wellness; physical health issues. Specific training in serving LGBTQ individuals will be related to violence, trauma, substance related disorders, mental health, suicide risk, and medical care.

*Prerequisite:* HSP 113 and HSP 117 with a minimum grade of C. *Recommended preparation:* HSP 126 with a minimum grade of C.

### **HSP 251 Prevention Strategies (5)**

(Formerly HSP 205) This course content includes an overview of prevention, current research, prevention planning, role of the media, program models, and evaluation methodology.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### **HSP 262 Loss and Grief through the Lifespan (5)**

This course focuses on losses ranging from everyday setbacks to stigmatizing issues. The grief process will be examined from a variety of approaches including cultural, religious, and developmental perspectives. End of life concerns will also be covered.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### **HSP 265 Aging and Adult Services (5)**

(Formerly HSP 209) This course reviews the changing needs of people as they progress through the later stages of life. Social interactions, cognitive abilities, physical changes, health issues, psychological adaptations, recreational options, and other life domain concerns will be explored to prepare the students wishing to work with an aging population.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### **HSP 282 Program and Proposal Development (5)**

(Formerly HSP 208 Program Planning and Grant Writing) This course will examine the various elements required to create a new program or project; research potential funding sources; write an effective funding proposal; create and apply program evaluation strategies.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instructor permission.

### **HSP 283 Leadership Development (5)**

This course will engage students in learning and developing their own leadership skills. Roles and functions of leadership will be explored and opportunities to lead will be extended. Special attention will be placed on the relationship of service leadership development in their lives and the helping field.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C; or instruction permission.

## Human Services

### HSP 291 Supervised Clinical Practicum I (5)

(Formerly HSP 191) This course is the first of supervised clinical practicum experiences and requires 116 hours of work during the quarter in a community setting. The focus of HSP 291 is on integrating oneself into the workplace. The weekly seminars offer helpful suggestions and discussions on how to establish a good work relationship and strengthen communication skills.

*Prerequisite:* HSP 100, HSP 103, HSP 112, HSP 113 and HSP 117 with a minimum grade of C.

### HSP 292 Supervised Clinical Practicum II (5)

(Formerly HSP 192) This course requires 116 hours of supervised work experience. The focus of the HSP 292 weekly seminars shifts to understanding integration into the professional role within the Human Services field. Students will examine the organization of agencies and other pertinent professional issues related to students' experiences.

*Prerequisite:* HSP 291 with a minimum grade of C.

### HSP 293 Supervised Clinical Practicum III (5)

(Formerly HSP 193) This final clinical practicum experience again requires 116 hours of supervised work. The focus on HSP 293 is on integration of field experience with classroom learning to form a personal theory of helping. Weekly seminars will alternate between discussing issues that arise from the field and refining helping strategies as well as helping students to synthesize theories and techniques into a working model.

*Prerequisite:* HSP 292 with a minimum grade of C.

## Information Technology

### IT 102 Microcomputer Fundamentals (5)

This course provides concepts and hands-on experience in understanding and supporting a PC-compatible microcomputer. Topics include microprocessors, system architecture, system boards, expansion cards, memory, input/output devices, and peripherals. The student learns how to build, configure, and troubleshoot a personal computer, and install its operating system. The objectives of the course are based on those of the COMPTIA A+ Certification Exam.

*Prerequisite:* CU 100 with a minimum grade of C or Program Chair permission.

### IT 110 Operating Systems I (5)

The student is introduced to operating systems used on desktop microcomputers. The course covers installation and configuration, memory and storage management, batch and script files, device drivers, troubleshooting and maintenance tools, and virus protection. Emphasis is on current Windows operating systems. The objectives of the course are based on those of the COMPTIA A+ Certification Exam.

*Prerequisite:* CU 100 with a minimum grade of C or Program Chair permission.

### IT 112 Help Desk Operations (2)

The goal of this course is to provide the student with a good understanding of the concepts, technologies, and processes used in the business community to support in-house and remote staff through help desk operations.

*Prerequisite:* CU 100 with a minimum grade of C or Program Chair permission.

### IT 201 Introduction to Programming (5)

An introduction to programming and programming concepts. Students will use process mapping, flowcharting, pseudocode, and critical thinking skills to analyze various types of problems as preliminary design tools, and then will design, code, test, and debug programs using a programming language.

*Prerequisite:* BUS 110 or MATH& 107 with a minimum grade of C. *Co-Requisite:* IT 262 with a minimum grade of C or Program Chair permission.

### IT 210 Operating Systems II (5)

This course extends the skills learned in IT-110 to more advanced desktop operating systems. Installation, maintenance, and troubleshooting are stressed.

*Prerequisite:* IT 102 and IT 110 with a minimum grade of C or Program Chair permission.

### IT 211 Operating Systems III (5)

Provides hands-on experience in installation, configuration and administration of the UNIX/Linux operating system in a networked environment.

*Prerequisite:* IT 102 and IT 110 with a minimum grade of C; or Program Chair permission.

### IT 230 Introduction to Project Management (2)

An introduction to Project Management from a team member perspective. Students will learn the different tools and techniques used in initiating, planning, developing, documenting and completing a project.

*Prerequisite:* ENGL& 101 and BUS& 101 or BUS 164 or Program Chair permission.

### IT 246 Database Implementation (5)

(Formerly IT 246 and 248 combined) Students will learn to implement a SQL database for business needs. Students will use a graphical user interface and structured query language to implement databases and reporting solutions.

*Prerequisite:* BUS 110 with a minimum grade of C or equivalent; program chair permission.

*Recommended preparation:* CU 210 with a minimum grade of C or equivalent.

### IT 247 IT Project Management (5)

Project Management for IT professionals and projects from a team member perspective. Students will learn the different tools and techniques used in initiating, planning, developing, documenting and completing an IT project.

*Prerequisite:* IT 230 or IT 261 with a minimum grade of C or Program Chair permission.

## Information Technology

### IT 249 Database Programming (3)

The Database Programming course is focused on different aspects of integration of applications with database design and development. Students hone their technical skills by learning how to analyze, design and develop database systems. This course is designed to further develop programming proficiency. Emphasis is on data definition, data manipulation, and data control statements including database cursors, triggers, procedures and functions. Students will be required to learn and develop skills using the developer tools, Forms Builder and Reports Builder in this course for report generation and publication. Upon completion, students should be able to write programs which create, update, and produce reports.

*Prerequisite:* IT 246 with a minimum grade of C or program chair permission.

*Recommended Preparation:* CU 210 with a minimum grade of C.

### IT 257 Social Media (3)

This course is designed to provide students with a foundational skill set in the new, evolving world of social media tools and strategies so that they can immediately apply them in the workplace.

*Prerequisite:* CU 105 with a minimum grade of C or Program Chair permission.

*Recommended Preparation:* CU 101.

### IT 260 Client/Server Technology - LANs (5)

This course introduces the student to the concepts of data communication in a Local Area Network (LAN) environment. It includes training in the methods and protocols used to allow networked computer systems to communicate in local environments. Topics include the OSI Communication Model, transmission media, protocol stacks especially TCP/IP, simple internetworking, and LAN services. Course objectives are based on those of the COMPTIA Network + certification exams.

*Prerequisite:* IT 102 and IT 110 with a minimum grade of C and IT 261 (may be taken concurrently) or Program Chair permission.

### IT 261 Administration of Networks (5)

The student is introduced to networking and to a detailed study of network administration techniques. This is an applied course in the concepts of local area networks (LANs). The student focuses on configuration of file and print services. Methods and tools for designing, implementing, and maintaining a secure, expandable local area network environments are studied. Microsoft Windows Server is used as the platform for this course.

*Prerequisite:* IT 102 and IT 110 with a minimum grade of C and IT 260 (may be taken concurrently) or Program Chair permission.

### IT 262 Technical Support of Windows Networks (5)

This is a practical course in the installation, configuration, maintenance, and support of Local Area Networks (LANs) using the Windows Network Operating Systems (NOSs). A Microsoft Windows Server is installed and configured for secure and efficient file, print and application services. The architecture and functionality of the Windows Server OS are studied. The course also provides the theoretical, hands on, and practical techniques that can be used in preparation for the COMPTIA Server+ exam.

*Prerequisite:* IT 260 and IT 261, with a minimum grade of C and IT 270 (may be taken concurrently) or Program Chair permission.

*Recommended:* IT 210.

### IT 270 Service and Support Fundamentals (5)

This course is an introduction to the methodologies and tools for personal computer and Local Area Network (LAN) troubleshooting from a proactive viewpoint. The student studies the methods to identify and repair the most likely causes of network faults caused by user, hardware, and software problems. Disaster Plans, including a Backup Plan, are developed. Quality customer service, journaling and documentation are emphasized. Configuration management and patch/service release installation is learned. Server performance monitoring is discussed.

*Prerequisite:* IT 260 and IT 261 with a minimum grade of C and IT 262 (may be taken concurrently) or Program Chair permission.

*Recommended:* IT 210.

### IT 271 Internetworking (5)

The skills learned in IT 270 are extended to applications on wide-area networks. Equipment, such as client computers, servers, bridges, hubs, switches, routers, and DSU/CSU units, are installed and configured. While the course is not specific to one vendor, many objectives parallel those of the Cisco Certified Network Associate (CCNA) Certification.

*Prerequisite:* IT 262 and IT 270 with a minimum grade of C and IT 280 (may be taken concurrently) or Program Chair permission.

### IT 274 Network Security Fundamentals (5)

The Network Security Fundamentals course is an introduction to the various technical and administrative aspects of Information Security and Assurance in a network-centric computing environment. The course provides the foundation for understanding the key issues associated with determining appropriate levels of protection for information and computing assets. The course will also provide information on how to design and manage a secure network infrastructure.

*Prerequisite:* CU 105 with a minimum grade of C or equivalent knowledge or Program Chair permission. *Recommended:* IT 260.

### IT 275 Security Assessment & Remediation (5)

This course is a continuation of study in Network Security with added emphasis on security assessment, risks and remediation options for security networks.

*Prerequisite:* IT 274 and IT 260 with a minimum grade of C or Program Chair permission.

### IT 277 Data Storage Security and Management (5)

This course covers the core elements of storage infrastructure including various storage networking technologies, business continuity, information availability, storage management and security concepts, principles and best practices.

*Prerequisite:* IT 274 and IT 261 with a minimum grade of C or Program Chair permission.

## Information Technology

### IT 278 Incident Response & Intrusion Analysis (5)

This course presents network defense in depth for enterprise networks, attack methods, intrusion analysis and detection.

*Prerequisite:* IT 275 with a minimum grade of C; or Program Chair permission.

*Co-requisite:* IT 281.

### IT 280 Advanced Networking Technologies (5)

This is a capstone course for the Network and Cyber Security program. Students will demonstrate a complete foundation skill set by using the knowledge and skills acquired in previous course work to implement a complete and secure network using project management, business analysis, budget development, presentation, and technical knowledge and skills.

*Prerequisite:* IT 262 and IT 270 with a minimum grade of C and IT 271 (may be taken concurrently) or Program Chair permission.

### IT 281 Cyber Security Capstone (5)

This is a capstone course for the Network Administration and Support degree program Cyber Security option. Students will use knowledge learned in previous course work to implement robust security solutions for enterprise networks.

*Prerequisite:* IT 275 with a minimum grade of C and Program Chair permission.

*Co-requisite:* IT 278.

### IT 282 Database Management Capstone (5)

This is a capstone course for the Networking & Cyber Security degree program Database Management certificate option. Students will use knowledge learned in previous course work to implement robust data security solutions for enterprise networks.

*Prerequisite:* IT 246 with a minimum grade of C and program chair permission.

*Co-requisite:* IT 249.

### IT 290 Work Internship (5)

During one quarter of the sophomore year, students can receive college credits for hands-on computer related work experience and training in a private or public sector organization.

*Prerequisite:* Program Chair permission.

### IT 299 Independent Study & Special Projects (1)

Study on an individual basis

*Prerequisite:* Program Chair permission.

## Japanese

The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology.

Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum.

### JAPN& 121 Japanese I (5)

(Formerly JAPAN 101) The first year of the beginning Japanese language sequence of 121, 122, and 123. JAPN& 121 is the first quarter of the sequence. (multicultural content)

*Prerequisite:* ENGL/ 095 with a minimum grade of C or equivalent.

### JAPN& 122 Japanese II (5)

(Formerly JAPAN 102) JAPN& 122 is the second quarter of the first-year language sequence and continues to build on the skills acquired in JAPN& 121. (multicultural content)

*Prerequisite:* JAPN& 121 with a minimum grade of C or instructor permission.

### JAPN& 123 Japanese III (5)

(Formerly JAPAN 123) JAPN& 123 is the third quarter of the first-year language sequence and continues to build on the skills acquired in JAPN& 122. (multicultural content)

*Prerequisite:* JAPN& 122 with a minimum grade of C or instructor permission.

## Library Science

### LS 101 Introduction to Research (2)

Meet course-related research needs by learning to identify, find, evaluate, incorporate, and cite appropriate sources using a range of research tools.

### LS 102 Research for Writing in the Disciplines (2)

Students concurrently registered in 200-level social sciences courses will meet course-related research needs by developing strategies to identify, find, evaluate, incorporate and cite appropriate sources using a broad range of research tools. Evaluation and use of sources for specific disciplines will be emphasized.

*Prerequisite: ENGL& 101 with a minimum grade of C.*

### LS 301 Research Skills for BAS (2)

This course will help the student to meet course-related research needs by developing strategies to identify, find, evaluate, incorporate and cite appropriate sources used in their program of study. Evaluation and use of sources specific to the student's program of study will be emphasized.

*Prerequisite: ENGL& 101 with a minimum grade of C and Co-requisite HIM 320 or BUS 300 or admission to the Community Health BAS Program.*

## Logistics

### LOG 102 Transportation & Distribution (5)

This course will introduce students to the role and importance of transportation and distribution of cargo in the nation's economy and to overview the operations of each mode of the transportation industry. Students will be introduced to the carrier cost structures and operating characteristics, and public policy as it relates to transportation regulations. Practical aspects of transportation and distribution such as planning, routing, scheduling and loading cargo, and adhering to regulatory, safety, security and administrative requirements will be stressed.

*Prerequisite: ENGL/ 095 with a minimum grade of C or assessment at college-level reading and writing. Recommended: LOG 102.*

### LOG 104 Applied Warehousing and Inventory Management (5)

This course introduces students to practical concepts of warehousing and inventory management including the types of equipment, storage processes and systems, the technologies used to identify and track units in a warehouse, and the regulations designed to ensure safety in warehouse operations. Students will gain a better understanding of warehouse processes through field trips and/or applied lab exercise. Includes a series of applied hands-on exercises. This version of Warehousing & Inventory Management is required for students in the Business AAS degree.

*Prerequisite: ENGL/ 095 with a minimum grade of C or assessment at college-level reading and writing. Recommended: LOG 102.*

### LOG 110 International Logistics (3)

This course is an introduction to International Logistics and how organizations enter into and maintain a global presence. Students will learn global trade strategies and some of the controllable and uncontrollable factors that determine success in a global market.

### LOG 112 Importing & Exporting (3)

This course is an introduction to the processes and documentation used in importing and exporting products in today's international marketplace.

*Prerequisite: ENGL/ 095 with a minimum grade of C or assessment at college-level reading and writing. Recommended: LOG 102.*

### LOG 115 Logistics Security and Risk Management (5)

This course overviews logistics security threats and risks and the countermeasures that can be used to secure fixed assets and assets in transit. Students will become familiar with applicable domestic and international standards, laws, and regulations as well as the technologies that are used in ensuring that the supply chain is safe.

*Prerequisite: LOG 102 with a minimum grade of C.*

## Mathematics

TCC offers both college transfer and pre-college-level courses. TCC uses multiple measures for placement into its math courses (see Placement section, page 10). Courses numbered below 100 cannot be applied toward degree or certificate requirements. See Advising for details.

Students considering a major in mathematics, engineering, science or computer science will normally complete MATH& 141, 142, 151, 152, 153, 254 and MATH 220, 238. Business and economics majors should complete MATH 147 and MATH& 148.

The use of computer applications, including spreadsheets, is included in MATH& 146, MATH 147 and MATH& 148. For these classes, CU 103 and CU 203 are recommended as prerequisites if a student does not have spreadsheet experience.

Many developmental math courses are offered in a computer-mediated format (designated with "CM" in the section number of the class). Students learn by using computer software under their instructor's direction, often working independently or in small groups. Students are required to complete material within a time line established by the instructor. Additional time is required working on a home computer or in a TCC computer lab.

TCC's BEdA program offers affordable alternatives to MATH 085, 090, and 095. See page 156 for more information.

### **MATH 075 Review Arithmetic (5)**

(Previously MATH 086) Review of basic mathematics including arithmetic of whole numbers, fractions, decimals, percentages, ratios, proportions and plane geometry. Four-function basic calculator required.

*Prerequisite:* ENGL/ 085 with a minimum grade of C (may be taken concurrently) or equivalent; and placement at MATH 075 level.

### **MATH 085 Introduction to Elementary Algebra (5)**

(Previously MATH 088) Beginning algebra specifically designed for students with no algebra background. Topics include introduction to variables and signed numbers, solutions to linear equations and inequalities, simplification of algebraic expressions, evaluation and manipulation of formulas, an emphasis on word problems and graphing of linear equations.

*Prerequisite:* ENGL/ 085 with a minimum grade of C (may be taken concurrently) or equivalent; and either MATH 075 with a minimum grade of C or equivalent or ABE 083 with a minimum grade of C.

### **MATH 090 Elementary Algebra (5)**

Topics include linear equations, polynomials, factoring, rational expressions, and graphing. Scientific calculator required.

*Prerequisite:* ENGL/ 085 with a minimum grade of C or equivalent; and either MATH 085 with a minimum grade of C or ABE 085 with a minimum grade of C or equivalent.

### **MATH 093 Descriptive Statistics with Algebra (5)**

Based on the Statway curriculum for teaching statistics with integrated algebra. Introduction to descriptive statistics. Topics include data analysis and statistical studies, graphical and tabular summaries of data, measures of central tendency and variability, basic probability, functions, linear equations, linear regression and two-way tables. Preparation course for MATH-136.

*Prerequisite:* MATH 085 or ABE 085 with a minimum grade of C or assessment above MATH 085 and ENGL/ 095 (may be taken concurrently) with a minimum grade of C or equivalent.

### **MATH 094 Statway Bridge to Business Algebra (5)**

Topics include rates of change, introduction to functions, linear, quadratic, exponential and logarithmic functions and their applications, systems of linear equations and inequalities and their applications.

*Prerequisite:* MATH 136 with a minimum grade of C.

### **MATH 095 Intermediate Algebra (5)**

(Formerly MATH 099) Topics include introduction to functions; linear, quadratic, exponential and logarithmic functions and their applications; systems of linear equations and inequalities and their applications; rational exponents and radicals.

*Prerequisite:* MATH 090 with a minimum grade of C or assessment above MATH 090; and ENGL/ 085 with a minimum grade of C or equivalent.

### **MATH 096 Accelerated Algebra (3)**

A survey of algebraic concepts and skills intended for students majoring in math, science, or engineering. Topics include linear, quadratic, and radical functions, simplifying expressions, and solving equations.

This course integrates the necessary algebraic skills and concepts into MATH-140 Introduction to Precalculus.

*Prerequisite:* MATH 090 with a minimum grade of B or MATH 095 with a minimum grade of C or appropriate MATH placement; and ENGL/ 095 with a minimum grade of C or equivalent. *Co-requisite:* MATH 140.

### **MATH& 107 Math in Society (5)**

(Formerly MATH 107) A general education course investigating quantitative reasoning and its applications and role in society. Topics may include graph theory, statistics, coding, game theory, symmetry, and geometric and numerical patterns. Mathematical theory combined with quantitative skills will be used in applications to a variety of problems encountered in mathematics and the world. A thematic approach may be taken in this course.

*Prerequisite:* MATH 095 with a minimum grade of C or equivalent; and ENGL/ 095 with a minimum grade of C or assessment above ENGL/ 095 or equivalent.



## Mathematics

### **MATH& 131 Math for Elementary Education 1 (5)**

(Formerly MATH 170) A course for prospective teachers focusing on the mathematics underlying modern elementary school math curricula. Topics include deductive reasoning, set theory, whole numbers, fractions, decimals and their operations, and proportion and percentage. Emphasizes deep conceptual understanding, problem solving, and communication of mathematical ideas.

*Prerequisite:* MATH 095 and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH& 132 Math for Elementary Education 2 (5)**

(Formerly MATH 171) A course for prospective teachers focusing on the mathematics underlying modern elementary school math curricula. Topics include geometry, measurement, probability, and statistics. Emphasizes deep conceptual understanding, problem solving and communication of mathematical ideas.

*Prerequisite:* MATH 095 and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH 136 Inferential Statistics (5)**

Based on the Statway curriculum for teaching statistics with integrated algebra. Introduction to inferential statistics. Topics include modeling with linear, exponential and quadratic functions, probability distributions, confidence intervals and hypothesis testing for one and two sample proportions and means tests. Completion of MATH 136 is equivalent to completion of MATH& 146.

*Prerequisite:* MATH 093 with a minimum grade of C.

### **MATH 140 Introduction to Precalculus (2)**

This course integrates analytic geometry concepts into MATH 096 Accelerated Algebra. Topics include one-dimensional and two-dimensional coordinate geometry, parameterized families of functions and their graphs.

*Prerequisite:* MATH 090 with a minimum grade of B or MATH 095 with a minimum grade of C or appropriate MATH placement; and ENGL/ 095 with a minimum grade of C or equivalent. *Co-requisite:* MATH 096.

### **MATH& 141 Precalculus I (5)**

(Formerly MATH 115) In-depth study of the concept of a function, including graphs, transformations, operations on functions, and inverse functions. General theory of functions is applied to the study of polynomial, absolute value, radical, rational, exponential, and logarithmic functions. First course in a two course sequence designed to prepare students for Calculus. Graphing calculator required.

*Prerequisite:* MATH 140 with a minimum grade of C or appropriate MATH placement; and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH& 142 Precalculus II (5)**

(Formerly MATH 116) An introduction to trigonometric functions and their applications. Topics include unit circle definition of trigonometric functions, graphs, identities, inverse trigonometric functions, and solving equations and triangles. Also included is an introduction to conic sections and parametric equations. Second course in a two course sequence designed to prepare students for Calculus. Graphing calculators are required.

*Prerequisite:* MATH& 141 with a minimum grade of C or appropriate MATH placement; and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH& 146 Introduction to Statistics (5)**

(Formerly MATH 108) Introduction to the basic principles of probability, descriptive statistics, and inferential statistics. Topics include properties of probability, graphical and tabular summaries of data, measures of central tendency and variability, probability distributions, confidence intervals, hypothesis testing, and linear regression.

*Prerequisite:* MATH 095 with a minimum grade of C or assessment above MATH 095 with a minimum grade of C; and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH 147 College Algebra for Business and Economics (5)**

(Formerly MATH 111) A precalculus course for business majors. Topics include: polynomials, inequalities, rational functions, marginal revenue and costs, matrix algebra, systems

of equations, linear programming by graphing and simplex methods, exponential and logarithmic functions, linear regression, and the time value of money. Required: graphing calculator and knowledge of Excel spreadsheets including graphing.

*Prerequisite:* MATH 095 with a minimum grade of C or MATH 094 with a minimum grade of C or equivalent; and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH& 148 Business Calculus (5)**

(Formerly MATH 112) (For students in business, economics, social sciences and other fields requiring minimal calculus.)

Topics include the derivative, rates of change, maxima and minima, the integral and applications of integrals. Required: graphing calculator and knowledge of Excel spreadsheets including graphing.

*Prerequisite:* MATH 147 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent; and knowledge of Excel spreadsheet software including graphing.

### **MATH& 151 Calculus I (5)**

Topics of calculus are presented geometrically, numerically, and symbolically. MATH& 151 topics include limits, introduction to differentiation (including derivatives of exponential and logarithmic functions), and applications of the derivative. Graphing calculator required.

*Prerequisite:* MATH& 142 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent.

### **MATH& 152 Calculus II (5)**

Topics of calculus are presented geometrically, numerically, and symbolically. MATH& 152 topics include applications of integration, differentiation, and methods of integration including improper integrals. Graphing calculator required.

*Prerequisite:* MATH& 151 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent.

## Mathematics

### MATH& 153 Calculus III (5)

Topics of calculus are presented geometrically, numerically, and symbolically. MATH& 153 topics include sequences, infinite series, Taylor series, Taylor polynomials, vectors, and functions of several variables. Graphing calculator required.

*Prerequisite:* MATH& 152 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent.

### MATH 220 Linear Algebra (5)

Topics include linear systems of equations, matrices, determinants, vectors, abstract vector spaces, linear transformations, eigenvectors and applications. Graphing calculator required.

*Prerequisite:* MATH& 153 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent.

### MATH 238 Elements of Differential Equations (5)

Introductory Course in ordinary differential equations. Topics includes first- and second-order differential equations, Laplace transform, power series solutions, applications and modeling. Graphing calculator required.

*Prerequisite:* MATH& 153 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent.

### MATH& 254 Calculus IV (5)

(Formerly MATH 224) Topics of multivariable calculus are presented geometrically, numerically, and algebraically. Emphasis is on problem-solving and understanding concepts. Computers and graphing calculators are used as tools to assist the student in learning to think mathematically. Topics include cylindrical and spherical coordinates, vector valued functions, functions of several variables, partial differentiation, gradients, and double and triple integrals and vector calculus, including Green's and Stokes' theorems. Graphing calculator required.

*Prerequisite:* MATH& 153 with a minimum grade of C or appropriate MATH placement and department permission; and ENGL/ 095 with a minimum grade of C or equivalent.

## Music

### MUSC& 105 Music Appreciation (5)

(Formerly MUS 107) (For the general college student; recommended for education majors.) A focus on listening to music with understanding. A strong emphasis on learning the elements of music, and how they relate to different styles of music.

### MUSC 106 World Music (5)

(Formerly MUS 106) An introduction to musics of various cultures of the world. This class explores the elements of music, music as an expression of human values, music as an identity, and music as a lifestyle. (multicultural content)

### MUSC 110 Introduction to Digital Music (5)

This course introduces students to using computers and digital audio work station applications to make music. Topics covered include: an applied understanding of the elements of music, basic audio editing techniques, basic recording techniques, basic MIDI sequencing, and live performance with digital technology.

### MUSC 120 Music in the Classroom (5)

(Formerly MUS 120) Designed to instruct elementary education majors in practices with which they might implement music into their classrooms. This course will encompass individual music lesson plans as well as techniques to utilize music within other classroom subjects. Students will lead songs, lessons, and practice exercises in teaching music.

### MUSC 122 Class Applied Music: Voice (2)

(Formerly MUSC 151 and MUSC 251) Class instruction for the beginning voice student. Development of vocal skills required for performance in solo singing and ensembles as well as an emphasis on reading music and an understanding of basic music theory.

### MUSC 124 Class Applied Music: Piano I (2)

(Formerly MUS 124) Class instruction for the beginning piano student. Development of physical skills required for performance on keyboard instruments as well as an emphasis on reading music and an understanding of basic music theory. Performance/skills course.

### MUSC 125 Class Applied Music: Piano II (2)

(Formerly MUS 125) Second class in a sequence of instruction for the beginning piano student. Continued development of physical skills required for performance on keyboard instruments, as well as an emphasis on reading music and an understanding of basic music theory. Performance/skills course.

*Prerequisite:* MUSC 124 or instructor permission.

### MUSC 126 Class Applied Music: Piano III (2)

(Formerly MUS 126) Third quarter of class instruction for the beginning piano student. Continued development of physical skills required for performance on keyboard instruments, as well as an emphasis on reading intermediate/advanced piano music and an understanding of music theory. Performance/skills course.

*Prerequisite:* MUSC 125 or instructor permission.

### MUSC 131 Applied Lessons: String I (1)

Private instruction on a string instrument (violin, viola, cello, bass, harp, guitar). One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite:* Instructor permission.

### MUSC 132 Applied Lessons: Brass I (1)

Private instruction on brass instrument (horn, trumpet, trombone, euphonium, tuba). One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite:* Instructor permission.

### MUSC 133 Applied Lessons: Woodwind I (1)

Private instruction on a woodwind instrument (flute, oboe, clarinet, bassoon, or saxophone). One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite:* Instructor permission.

### MUSC 134 Applied Lessons: Percussion I (1)

Private instruction on traditional concert percussion instruments. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite:* Instructor permission.

## Music

### **MUSC 135 Applied Lessons: Keyboard I (1)**

Private instruction on traditional keyboard instruments (piano, organ). One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: Instructor permission.*

### **MUSC 136 Applied Lessons: Voice I (1)**

Private instruction in singing. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: Instructor permission.*

### **MUSC& 141 Music Theory I (5)**

(Formerly MUSC 141) Introduction to the materials of Western music, notation, rhythm, scales, intervals, and diatonic triads. Includes elementary ear-training and sight-singing.

### **MUSC& 142 Music Theory II (5)**

(Formerly MUSC 142) Introduction to the study of Western diatonic harmony. Analysis of 18th and 19th century harmonic usage; composition exercises stressing correct voice-leading and chord succession. Further development of aural skills through ear-training and sight-singing.

*Prerequisite: MUSC& 141 with a minimum grade of C or instructor permission.*

### **MUSC& 143 Music Theory III (5)**

(Formerly MUSC 143) Continued study of Western diatonic harmony, and introduction to chromatic harmony through analysis and composition exercises. Further development of aural skills through ear-training and sight-singing.

*Prerequisite: MUSC& 142 with a minimum grade of C or instructor permission.*

### **MUSC 152 Chamber Choir I (2)**

(Formerly MUS 180 and MUSC 180) Chamber Choir is the primary vocal ensemble here at Tacoma Community College. Chamber Choir sings a wide range of music. Known for its versatility and polished performances, this group can sing both on and off campus throughout the quarter. May be taken three times. Performance/skills course.

*Recommended: MUSC 122 with a minimum grade of C.*

### **MUSC 160 Orchestra I (2)**

(Formerly MUS 160) Preparation and performance of orchestra music. Students are expected to attend weekly rehearsals, and participate in all concerts. The orchestra is a combination of student and volunteer community musicians. This course is designed for experienced orchestra musicians, in their first year of participation in ensembles at TCC. May be taken 3 times. Performance/skills course.

*Prerequisite: Audition or instructor permission.*

### **MUSC 161 Symphonic Band (2)**

(Formerly MUS 290 and MUSC 290) Preparation and performance of concert band music. Students are expected to attend weekly rehearsals, and participate in at least one quarterly concert. This band is a combination of student and volunteer community musicians. This course is designed for students in their first year of participation in the TCC symphonic band. May be taken three times. Performance/skills course.

*Prerequisite: Audition only - instructor approval needed.*

### **MUSC 165 Jazz Band I (2)**

(Formerly MUS 291 and MUSC 291) Preparation and performance of jazz band music. Students are expected to attend weekly rehearsals, and participate in at least one quarterly concert. This band is a combination of student and volunteer community musicians. This course is designed for students in their first year of participation in the TCC jazz band. Performance/skills course.

*Prerequisite: Audition only - instructor approval needed.*

### **MUSC 179 Special Topics in Music (5)**

(Formerly MUSC 150) Studies of music related topics outside of the normal course offerings. Topics may include: focused analysis of a music genre, application of different music media, or a detailed examination of historical music styles.

### **MUSC 231 Applied Lessons: String II (1)**

Private instruction on string instruments (violin, viola, cello, bass, harp, guitar), at an intermediate through advanced level. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: MUSC 131 with a minimum grade of C and instructor permission.*

### **MUSC 232 Applied Lessons: Brass II (1)**

Private instruction on brass instruments (horn, trumpet, trombone, euphonium, tuba), at an intermediate through advanced level. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: MUSC 132 with a minimum grade of C and instructor permission.*

### **MUSC 233 Applied Lessons: Woodwind II (1)**

Private instruction on woodwind instrument (flute, oboe, clarinet, bassoon, or saxophone), at an intermediate through advanced level. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: MUSC 133 with a minimum grade of C and instructor permission.*

### **MUSC 234 Applied Lessons: Percussion II (1)**

Private instruction on traditional concert percussion instruments, at an intermediate through advanced level. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: MUSC 134 with a minimum grade of C and instructor permission.*

### **MUSC 235 Applied Lessons: Keyboard II (1)**

Private instruction on traditional keyboard instruments (piano, organ) at intermediate or advanced level. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: MUSC 135 with a minimum grade of C and instructor permission.*

### **MUSC 236 Applied Lessons: Voice II (1)**

Private instruction in singing at an intermediate through advanced level. One-on-one instruction in weekly lessons. Performance/skills course.

*Prerequisite: MUSC 136 with a minimum grade of C and instructor permission.*

## Music

### **MUSC& 241 Music Theory IV (5)**

The study of chromatic harmony in Western music. Analysis of 18th and 19th century harmonic usage; continued secondary chord functions and temporary harmonic modulations. Introduction to large-scale binary and ternary form and analysis. Further development of aural skills through ear training and sight singing.

*MUSC& 143 with a minimum grade of C or instructor permission by audition.*

### **MUSC& 242 Music Theory V (5)**

The study of extended chromatic harmony. An analysis of 18th and 19th century harmonic usage; modulations, extended chromatic chord structures, and mode mixture. Continued study of binary and ternary forms and analysis. Further development of aural skills through ear training and sight singing.

*Prerequisite: MUSC& 241 with a minimum grade of C or instructor permission.*

### **MUSC& 243 Music Theory VI (5)**

Introduction to Western and non-Western post-chromatic theory. Analysis of 20th and 21st century harmonic usage; modal theory, and atonal theory. Further development of aural skills through ear training and sight singing.

*Prerequisite: MUSC& 242 with a minimum grade of C or instructor permission.*

### **MUSC 252 Chamber Choir II (2)**

(Formerly MUS 280 and MUSC 280) A vocal ensemble whose members are selected by audition. Known for their versatility and polished performances, this group sings both on and off campus several times each quarter. Designed for students that have completed 3 quarters of MUSC 152. May be taken 3 times. Performance/skills course.

*Prerequisite: Instructor permission and/or three quarters of MUSC 152.*

### **MUSC 260 Orchestra II (2)**

(Formerly MUS-260) Advanced preparation and performance of orchestra music. Students are expected to attend weekly rehearsals, and participate in at least 1 quarterly concert.

This orchestra is a combination of student and volunteer community musicians. This course is designed for students in their second year of participation in the TCC orchestra. May be taken three times. Performance/skills course.

*Prerequisite: MUSC 160 with a minimum grade of C or audition or instructor permission.*

### **MUSC 261 Symphonic Band II (2)**

Advanced preparation and performance of concert band music. Students are expected to attend weekly rehearsals, and participate in at least 1 quarterly concert. This band is a combination of student and volunteer community musicians. This course is designed for students in their second year of participation in the TCC concert band. May be taken three times. Performance/skills course.

*Prerequisite: MUSC 161 with a minimum grade of C or instructor permission by audition.*

### **MUSC 265 Jazz Band II (2)**

Advanced preparation and performance of jazz band music. Students are expected to attend weekly rehearsals, and participate in at least 1 quarterly concert. This orchestra is a combination of student and volunteer community musicians. This course is designed for students in their second year of participation in the TCC jazz band. May be taken three times. Performance/skills course.

*Prerequisite: MUSC 165 with a minimum grade of C or instructor permission by audition.*

### **MUSC 299 Independent Study (1-5)**

Independent learning activity designed jointly by student and instructor to improve and/or increase the learner's knowledge and skill in the area of music. This course is an elective, and transferability is inconsistent. Instructor approval needed for enrollment. Variable credit course.

*Prerequisite: Instructor permission.*

## Nursing

### **NURS 101 Health & Illness - Level 1 (2)**

This course introduces the student to beginning knowledge of nursing practice. It focuses on the concepts Assessment; Health, Wellness & Illness; and Comfort across the lifespan.

*Prerequisite: Admission to the Nursing Program.*

### **NURS 102 Health & Illness - Level 2 (5)**

This course introduces the student to beginning knowledge of nursing practice. Health and Illness concepts included in this course are: Sexuality, Reproduction, Mobility, Sensory Perception, Tissue Integrity, Immunity, Elimination, and Nutrition. All concepts are applied to the care of individuals across the lifespan.

*Prerequisite: NURSS 101, NURS 115, NURS 153, NURS 181, NURS 191, and SOCSC 204 with a minimum grade of C.*

### **NURS 103 Health & Illness - Level 3 (3)**

This course introduces the student to intermediate knowledge of nursing practice. Health and Illness concepts included in this course are: Fluid and Electrolytes, Acid-Base Balance, Inflammation, Infection and Metabolism. All concepts are applied to the care of individuals across the lifespan.

*Prerequisite: NURS 154, NURS 116, NURS 192 and NURS 102 with a minimum grade of C.*

### **NURS 115 Skills and Assessment Lab I (2)**

This course introduces the nursing student to the application of concepts through clinical skills in the laboratory setting. Concepts of assessment, caring interventions, teaching and learning, safety, mobility, elimination, perfusion, oxygenation, and infection will be included across the lifespan. Students will participate in supervised practice and competency validation under simulated conditions.

*Prerequisite: Admission to the Nursing program.*

## Nursing

### **NURS 116 Skills and Assessment Lab II (3)**

This course introduces the nursing student to the application of concepts through clinical skills in the laboratory setting. Concepts of assessment, caring interventions, comfort, fluid and electrolytes, elimination, nutrition, metabolism, tissue integrity, and infection will be included across the lifespan. Accurate calculation, measurement, and administration of medications will be also be emphasized. Students will participate in supervised practice and competency validation under simulated conditions

*Prerequisite:* NURS 101, NURS 115, NURS 153, NURS 181, NURS 191, and SOCSC 204 with a minimum grade of C.

### **NURS 117 Skills and Assessment Lab - LPN Transition (3)**

This course is designed for LPNs transitioning to the RN program. It reinforces the application of concepts through clinical skills in the laboratory setting and introduces the LPN to skills necessary to successfully transition to the role of RN. Concepts of assessment, caring interventions, comfort, fluid and electrolytes, elimination, nutrition and digestion, metabolism, tissue integrity, and infection will be included. Accurate calculation, measurement, and administration of medications will also be emphasized. Students will participate in supervised practice and competency validation under simulated conditions.

*Prerequisite:* Active unencumbered WA LPN License and admission to the Nursing program.

### **NURS 124 Clinical Simulation III (2)**

This course provides learning opportunities through simulated practice of nursing care delivery. It includes participation in select patient scenarios across the lifespan in a simulation lab setting, using application of concepts in coordination with other courses in the program.

*Prerequisite:* NURS 102, NURS 116, NURS 154, and NURS 192 with a minimum grade of C.

### **NURS 125 Clinical and Simulation - LPN Transition (3)**

This course provides continued learning opportunities through simulated and actual clinical practice of nursing care delivery. It includes select patient scenarios across the lifespan in a simulated lab setting, using application of concepts in coordination with other courses in the program. In the clinical setting, the students will have learning opportunities to apply concepts and skills in the caring of patients with medical-surgical needs in the acute care or specialty care setting across the lifespan. Principles of communication, safety, and application of the nursing process, including accurate calculation, measurement, and administration of medications, will be included in both the simulated and the clinical settings

*Prerequisite:* Admission to the Nursing program.

### **NURS 153 Pharmacology I (1)**

This course introduces the student to pharmacology. Pharmacological concepts included in this course are: pharmacokinetics, routes of administration, dosage calculation, safe medication administration, therapeutic effects, side and adverse effects, interactions, and contraindications. Specific medications related to the concepts Health, Wellness & Illness, Comfort, Stress & Coping, and Development are included.

*Prerequisite:* Admission to the Nursing program.

### **NURS 154 Pharmacology II (1)**

This course continues with pharmacological concepts about the pharmacokinetics, routes of administration, dosage calculation, safe medication administration, therapeutic effects, side and adverse effects, interactions, and contraindications of specific medications for the following areas: Immunity, Sexuality, Reproduction, Elimination, and Nutrition across the lifespan.

*Prerequisite:* NURS 101, NURS 115, NURS 191, NURS 181, NURS 153, and SOCSC 204 with a minimum grade of C.

### **NURS 155 Pharmacology III (1)**

This course continues with pharmacological concepts about the pharmacokinetics, routes of administration, dosage calculation, safe medication administration, therapeutic effects, side and adverse effects, interactions, and contraindications of specific medications for these areas across the lifespan: Fluid and Electrolytes, Acid-Base Balance, Inflammation, Infection, and Metabolism.

*Prerequisite:* NURS 116, NURS 192, NURS 154 and NURS 102 with a minimum grade of C.

### **NURS 156 Pharmacology - LPN Transition (1)**

This course continues with pharmacological concepts about the pharmacokinetics, routes of administration, dosage calculation, safe medication administration, therapeutic effects, side and adverse effects, interactions, and contraindications of specific medications for these areas across the lifespan: Fluid and Electrolyte and Acid-Base Balance, Inflammation, Tissue Integrity, Infection, Cellular Regulation, Metabolism, Immunity, and Elimination.

*Prerequisite:* Acceptance into the LPN to RN Bridge program.

### **NURS 177 Health & Illness Concepts - LPN Transition (3)**

This course introduces the student to intermediate knowledge of nursing practice. Health and illness concepts included in this course are: Cellular Regulation, Metabolism, Immunity, and Elimination. All concepts are applied to the care of individuals across the lifespan and include elements of nutrition as applicable.

*Prerequisite:* Acceptance into the LPN to RN Bridge program..

### **NURS 181 Professional Concepts I (1)**

This course introduces the student to beginning knowledge, skills and attitudes of nursing as a profession and includes the following concepts across the lifespan: Professional Behaviors, Collaboration, and Clinical Decision Making.

*Prerequisite:* Admission to the Nursing Program.

## Nursing

### **NURS 182 Professional Concepts II (1)**

This course introduces the student to beginning knowledge, skills and attitudes of nursing as a profession and includes the following concepts across the lifespan: Legal Issues, Health Care Systems, and Informatics. *Prerequisite: NURS 101, NURS115, NURS 153, NURS 181 and NURS 191 with a minimum grade of C.*

### **NURS 183 Professional Concepts III (1)**

This course introduces the student to intermediate knowledge, skills and attitudes of nursing as a profession and includes the following concepts across the lifespan: Teaching and Learning, Safety, and Evidence-Based Practice.

*Prerequisite: NURS 116, NURS 154, NURS 182 and NURS 192 with a minimum grade of C; or either NURS 102 with a minimum grade of C.*

### **NURS 184 Professional Concepts - LPN Transition (2)**

This course introduces students to intermediate knowledge, skills, and attitudes of nursing as a profession and includes the following concepts across the lifespan: Accountability, Clinical Decision Making, Legal, Informatics, Teaching and Learning, Safety, and Evidence Based Practice.

*Prerequisite: Acceptance into the LPN to RN Bridge program.*

### **NURS 191 Clinical I (3)**

This course introduces students to the application of concepts and skills in sub-acute care and community settings. Principles of communication, assessment, safety, and application of the nursing process will be included across the lifespan.

*Prerequisite: Admission to the Nursing program.*

### **NURS 192 Clinical II (3)**

This course introduces students to the application of concepts and skills in subacute and acute care settings across the lifespan, including maternal-child and pediatrics. Mental health concepts are an additional focus as applied to patients/clients in non-psychiatric settings. Principles of communication, safety, and application of the nursing process, including accurate calculation, measurement, and administration of medications, will be included.

*Prerequisite: NURS 101, NURS 115, NURS 153, NURS 181, NURS 191, and SOCSC 204 with a minimum grade of C.*

### **NURS 193 Clinical III (3)**

This course introduces students to the application of concepts and skills in caring for patients with medical-surgical needs in the acute care setting across the lifespan. Principles of communication, safety, and application of the nursing process, including accurate calculation, measurement, and administration of medications, will be included.

*Prerequisite: NURS 102, NURS 116, NURS 154, NURS 192 with a minimum grade of C.*

### **NURS 201 Health & Illness - Level 4 (4)**

This course introduces the student to intermediate knowledge of nursing practice. Health and Illness concepts included in this course are: Neuroprotection, Oxygenation, Perfusion, and Thermoregulation. All concepts are applied to the care of individuals across the lifespan.

*Prerequisite: NURS 103, NURS 124, NURS 155, NURS 193, and PHIL 201 with a minimum grade of C.*

### **NURS 202 Health & Illness - Level 5 (5)**

This course introduces the student to advanced knowledge of nursing practice. It addresses complex aspects of the following health and illness concepts: Immunity, Fluid and Electrolytes, Tissue Integrity, Cellular Regulation, Comfort, and Grief and Loss. All concepts are applied to the care of individuals across the lifespan.

*Prerequisite: NURS 201, NURS 226, NURS 256, NURS 294, and PHIL 202 with a minimum grade of C.*

### **NURS 226 Clinical Simulation IV (2)**

This course provides continued learning opportunities through simulated practice of nursing care delivery. It includes participation in select patient/client scenarios across the lifespan in a simulation lab setting, using application of concepts in coordination with other courses in the program.

*Prerequisite: NURS 103, NURS 124, NURS 155, NURS 193, and PHIL 201 with a minimum grade of C; or NURS 117, NURS 125, NURS 156, NURS 177, and NURS 184 with a minimum grade of C.*

### **NURS 227 Clinical Simulation V (2)**

This course provides advanced learning opportunities through simulated practice of nursing care delivery. It includes participation in select patient scenarios across the lifespan in a simulation lab setting, using application of concepts in coordination with other courses in the program.

*Prerequisite: NURS 201, NURS 226, NURS 256, NURS 294, and PHIL 202 with a minimum grade of C.*

### **NURS 228 Clinical Simulation VI (1)**

This course provides culminating learning opportunities through simulated practice of nursing care delivery. It includes participation in select patient scenarios across the lifespan in a simulation lab setting, using application of concepts in coordination with other courses in the program.

*Prerequisite: NURS 202, NURS 227, NURS 257, NURS 295, and SOCSC 205 with a minimum grade of C.*

### **NURS 234 Transition to Practice: Seminar (1)**

This course supports the student's Transition To Practice clinical experience in NURS 296. It provides the opportunity to reflect on clinical experiences with peers, and formulate problem-solving strategies that can be applied in the clinical setting.

*Prerequisite: NURS 202, NURS 227, NURS 257, NURS 295, and SOCSC 205 with a minimum grade of C. Corequisite: NURS 296.*

## Nursing

### **NURS 244 Preparation for the Natl Council Licensing Exam (1)**

This course is to prepare students through extensive assessment and review for the National Council of State Boards of Nursing's National Council Licensing Examination for Registered Nurses (NCLEX-RN).

*Prerequisite:* NURS 202, NURS 227, NURS 295, NURS 257 and SOCSC 205 with a minimum grade of C.

### **NURS 256 Pharmacology IV (1)**

This course continues with pharmacological concepts about the pharmacokinetics, routes of administration, dosage calculation, safe medication administration, therapeutic effects, side and adverse effects, interactions, and contraindications of specific medications for these areas across the lifespan: Oxygenation, Perfusion, and Neuroprotection.

*Prerequisite:* NURS 103, NURS 124, NURS 193, NURS 155 and PHIL 201 with a minimum grade of C; or NURS 117, NURS 125, NURS 156, NURS 177, and NURS 184 with a minimum grade of C.

### **NURS 257 Pharmacology V (1)**

This course continues with pharmacological concepts about the pharmacokinetics, routes of administration, dosage calculation, safe medication administration, therapeutic effects, side and adverse effects, interactions, and contraindications of specific medications or fluids for medications in these areas: immunity, fluid and electrolytes, infection, cellular regulation, comfort, cognition and mood and affect across the lifespan.

*Prerequisite:* NURS 201, NURS 226, NURS 294, NURS 256 and PHIL 202 with a minimum grade of C.

### **NURS 260 Nursing Focus VI: Advanced Intravenous Therapy Skills (1)**

This course provides advanced content related to the care of clients receiving intravenous fluids. Concepts related to selecting solutions, managing common complications, legal/ethical considerations, infection control, managing catheters and implanted port devices are discussed. Principles of the nursing process, growth and development, nutrition, pharmacology and health teaching are integrated.

*Prerequisite:* NURS 221, 222 and 242 or instructor permission.

### **NURS 284 Professional Concepts IV (1)**

This course introduces the student to intermediate knowledge, skills, and attitudes of nursing as a profession and includes the following concepts across the lifespan: Collaboration, Managing Care, and expands on Legal Issues.

*Prerequisite:* NURS 103, NURS 124, NURS 155, NURS 183 and NURS 193 with a minimum grade of C; or NURS 117, NURS 125, NURS 156, NURS 177 and NURS 184 with a minimum grade of C.

### **NURS 285 Professional Concepts V (1)**

This course introduces the student to advanced knowledge of nursing as a profession and includes the following concepts across the lifespan: Health Policy, Health Care Systems, Ethics, and Clinical Decision Making.

*Prerequisite:* NURS 201, NURS 226, NURS 256, NURS 284 and NURS 294 with a minimum grade of C.

### **NURS 286 Professional Concepts VI (1)**

This course introduces the student to advanced knowledge and attitudes of nursing as a profession and includes the concepts across the lifespan: Quality Improvement, Professional Behaviors, and Clinical Decision Making.

*Prerequisite:* NURS 202, NURS 227, NURS 257, NURS 295, and SOCSC 205 with a minimum grade of C.

### **NURS 294 Clinical IV (3)**

This course continues learning opportunities for students to apply concepts and skills in caring for patients with medical-surgical needs in the acute care or specialty care setting across the lifespan. Principles of communication, safety, and application of the nursing process, including accurate calculation, measurement, and administration of medications, will be included.

*Prerequisite:* NURS 124, NURS 155, NURS 193 or NURS 103, and PHIL 201 with a minimum grade of C; or NURS 117, NURS 125, NURS 156, NURS 177, and NURS 184 with a minimum grade of C.

### **NURS 295 Clinical V (3)**

This course advances learning opportunities for students to apply concepts and skills in caring for patients with complex medical-surgical needs in the acute care or specialty care setting across the lifespan. Principles of communication, safety, and application of the nursing process, including accurate calculation, measurement, and administration of medications, will be included.

*Prerequisite:* NURS 201, NURS 226, NURS 256, NURS 294 and PHIL 202 with a minimum grade of C.

### **NURS 296 Transition to Practice: Clinical (6)**

This course is the student's culminating clinical experience and provides immersion into clinical nursing practice. All previously acquired knowledge, skills and attitudes are reinforced and applied to patient/client care under the supervision of an experienced registered nurse in community partners' health care facilities.

*Prerequisite:* NURS 202, NURS 227, NURS 257, NURS 295 and SOCSC 205 with a minimum grade of C. *Co-Requisite:* NURS 234.

## Nursing

### **NURS 297 Independent Study Nursing Clinical (1-5)**

Independent learning activity designed jointly by student and instructor to improve and/or increase the knowledge and skill of the learner.

*Prerequisite: Instructor permission.*

### **NURS 298 Independent Study Nursing Lab and Simulation (1-5)**

Independent lab and/or simulation learning activity designed jointly by student and instructor to improve and/or increase the knowledge and skill of the learner.

*Prerequisite: Instructor permission.*

### **NURS 299 Individualized Studies in Nursing (1-5)**

Independent learning activity designed jointly by student and instructor to improve and/or increase the knowledge and skill of the learner.

*Prerequisite: Instructor permission.*

## Certified Nursing Assistant

### **HT 110 Fundamentals of Patient Care (5)**

This course will present the theoretical basics of bedside patient care under the guidelines of the federal and state requirements and will also consist of supervised practice of patient care skills. This course will focus on how to perform tasks under the supervision of nursing and/or medical staff such as helping patients eat, dress, and bathe; provide skin care to patients; take vital signs, i.e., temperature, pulse rate, respiration rate, pulse oximetry and blood pressure; and help patients get in and out of bed and walk. Participants who successfully complete this course, and the 3-credit clinical course will meet the criteria to sit for the state board certification exam.

### **HT 120 Patient Care Clinical (3)**

This course consists of supervised practice in actual patient care settings. Learning experiences are designed to allow development of competence in providing patient focused basic care skills to include but not limited to vital signs, cold/heat application, dressing changes-non-sterile, caring for patient with an IV, caring for a patient on oxygen, intake and output, bathing, am and pm care, toileting, dressing, feeding, positioning, range of motion, transfer techniques, ambulation and patient teaching related to implementation of skills.

### **HT 198 Introduction to Health Careers (3)**

This course, designed for new college students, will give an overview of the nature of the most common allied health careers and the academic requirements. It will also provide students the opportunity master CPR and learn about HIV/AIDS, both required of all health professionals, as well as service learning opportunities.

## Nutrition

### **NUTR& 101 Human Nutrition (5)**

A scientific study of human nutrition, with an emphasis on a chemical understanding of the major nutrients, a biologic understanding of the gastrointestinal tract and a practical understanding of dietary needs throughout life. This is not a lab course. Students may not receive credit for both NUTR 101 and NUTR&101.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent; and MATH 090 with a minimum grade of C or equivalent.*

*Recommended Preparation: CHEM& 110, BIOL& 100 or BIOL& 160 with a minimum grade of C.*

### **NUTR 250 Nutrition in Healthcare I (3)**

An introduction to the science of nutrition. Examines the foundational concepts of diet and nutrition in relation to health across the lifespan and in the context of healthcare professions. (Students may not get credit for both NUTR& 101 and NUTR 250.)

*Prerequisite: BIOL& 175 or BIOL& 242 (may be taken concurrently) with a minimum grade of C.*



## Oceanography

Students seeking courses for general interest or degree distribution requirements may consider OCEA& 101 and OCEA 179 for the Associate of Arts, General Studies and Applied Sciences degrees. Students intending to major in Oceanography at a baccalaureate institution should consult with the Earth Sciences advisor.

### **OCEA& 101 Introduction to Oceanography (5)**

(Formerly OCEAN-101) Focuses on topics such as the origin of ocean basins, seawater chemistry, atmospheric and oceanic circulation, waves, and marine ecosystems. The laboratory includes investigations of oceanographic phenomena and local field trips.

*Prerequisite: ENGL/ 095 with a minimum grade of C; and either MATH 090 or MATH 093 with a minimum grade of C or equivalent assessment in these areas.*

### **OCEA 179 Special Topics in Oceanography (1-5)**

These are seminars designed to provide Oceanography students with the opportunity to study selected oceanography topics and techniques. Topics and/or techniques covered will generally be determined by the instructor but may also reflect the expressed need or interest of students in the earth science program.

### **OCEA 299 Independent Study in Oceanography (1)**

Independent study of oceanographic topics.  
*Prerequisite: Instructor permission.*

## Paralegal

### **PLST 106 Legal Document Production (3)**

A basic course teaching technical skills in Microsoft Office computer applications with an emphasis on Microsoft Word and Microsoft Outlook as applied in a law office setting. Students will work through a series of hands-on assignments specifically tailored to legal documents, calendaring and general case management.

*Prerequisite: CU 102 or CU 105 with a minimum grade of C or equivalent.*

*Recommended preparation: CU 091 with a minimum grade of C or recommended ability to type 35 wpm.*

### **PLST 149 Writing Basics for Paralegals (3)**

(Formerly ADLJ 149) This introductory paralegal course is designed to improve the students' writing through emphasis on word usage, grammar and punctuation in typical legal contexts. Students will improve their proofreading and editing skills as they review and draft legal documents with a focus on accuracy and attention to detail.

*Prerequisite: Assessment at college-level English and reading*

### **PLST 150 Paralegal Fundamentals & Ethics (5)**

(Formerly ADLJ 150) Students will be introduced to the varied and rewarding responsibilities of a paralegal. Topics will cover careers, paralegal organizations, ethics and professional responsibility, paralegal skills and attributes, sources of American law, the court system, specific areas of law, and preparation for the internship.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 151 Legal Research and Writing I (5)**

(Formerly ADLJ 151) An introduction to developing effective methods of legal research and writing. Students will participate in a series of exercises that include finding statutes and case decisions in books and through computer-assisted legal research. Students will focus on identifying legal issues and validating cases and statutes while drafting letters, case briefs, and an objective memorandum. This is the first of two required legal research and writing courses.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 152 Introduction to Civil Law (5)**

(Formerly ADLJ 152) This course is designed to introduce the student to the foundations of civil law, including substantive issues; contracts; domestic relationships; wills, estates, and probate; torts and personal injury; and the legal profession. Classroom activities will include: case analysis; the drafting, examination and assessment of legal documents; application of general principles related to torts, contracts, family law, and wills; and relevant class projects pertaining to these areas. Activities outside the classroom will include online research and discussion board assignments.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 153 Civil Procedure I (5)**

(Formerly ADLJ 153) Students will be introduced to the procedural requirements in the civil litigation process with an emphasis on the requisite skills and knowledge essential to practicing paralegals. Statutes, case law and court rules (state and federal) will be examined, and the drafting of legal pleadings and other civil case documents will be assigned. Using simulated fact and legal scenarios, students will track and analyze the procedural aspects of a civil lawsuit from inception to verdict covering the stages of pleadings, discovery, motions practice, negotiations and pretrial settlement.

*Prerequisite: Recommended: PLST 149 with a minimum grade of C.*

### **PLST 154 Computer Applications in the Law (3)**

(Formerly ADLJ 154) This course is an introduction to computer technology and its applications within a law firm. Students will have the opportunity to apply hands-on training with Microsoft Office Suite (Word, Excel, Access and Outlook); timekeeping software; docket control/case management software; litigation support software; and evidence display software. Resources and techniques for the efficient application of software typically found in the law office are provided in addition to hands-on work with industry-specific software applications.

*Prerequisite: ENGL/ 095; and CU 105 or equivalent; and PLST 106 or equivalent.*

## Paralegal

### **PLST 155 Health/Dealing With Stress (1)**

(Formerly ADLJ 155) The paralegal field can challenge a professional's health and well-being. This online course helps the student recognize cues that may be barriers to optimal health and well-being, and offers tools and practicum for dealing with stress and achieving a healthy balance in various areas of life, including school, work, and family.

*Prerequisite: Assessment of college-level English and reading.*

### **PLST 156 Criminal Procedure for Paralegals (5)**

(Formerly ADLJ 156) This course is designed to teach students the basic concepts of substantive criminal law emphasizing Washington statutes and criminal procedure with a focus on individual rights under the United States Constitution. Students will prepare documents typically drafted by paralegals in a law office or agency in the field of criminal law defense or prosecution.

*Prerequisite: Assessment at college-level English and reading or completion of ENGL 095 and READ 095 or ENGL/ 095.*

### **PLST 221 Family Law (3)**

(Formerly ADLJ 221) This course will introduce students to the legal authorities and procedures involved in family law cases. Topics covered will include marriage, divorce, adoption, legal separation, paternity and child support, parenting plans, and other topics. Students will learn to identify and resolve various family law issues, as well as to draft common family law documents such as child support worksheets.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 222 Probate/Estate Planning (3)**

(Formerly ADLJ 222) Estate planning involves the financial and healthcare arrangements that are made during a person's lifetime as well as the preparation for transfer of that person's assets at death. Probate is the process of proving the validity of a will and ensuring that the instructions in a valid will are carried out. Students will develop knowledge and skills for the drafting of wills and trusts and for the procedural requirements of the probate process.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 223 Alternative Dispute Resolution (3)**

(Formerly ADLJ 223) Alternative Dispute Resolution is a method of resolving disputes before they go to trial. Negotiation, mediation and arbitration are forms of ADR. Paralegals may qualify as mediators and directly assist parties in reaching an agreement. Other paralegals will assist attorneys in this fast growing method of settling disputes.

Students will become familiar with the ADR laws in Washington State.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### **PLST 224 Real Estate Law (3)**

(Formerly ADLJ 224) An introduction to law and legal systems as related to real estate transactions. Major topics include forms of ownership; title, transfers and insurance; fraud, deceit and misrepresentation; contract law and documents; real estate security documents; and duties and liabilities of licensees.

*Prerequisite: Assessment at college-level English and reading or ENGL 095 and READ 095 or ENGL/ 095.*

### **PLST 225 Bankruptcy Law (3)**

(Formerly ADLJ 225) Bankruptcy law is federal law with the proceedings taking place in the federal court system. Students will learn about the various types of relief for both individuals and businesses. They will gain knowledge and skills necessary for interviewing the debtor, reviewing creditors' claims, and preparing the documents for submission to the bankruptcy court.

*Prerequisite: Assessment at college-level English and reading or completion of ENGL 095 and READ 095 or ENGL/ 095.*

### **PLST 226 Administrative Law (3)**

(Formerly ADLJ 226) This course will introduce students to the legal authorities and procedures involved in administrative law cases. Students will learn the state and federal legal authority that creates and empowers administrative agencies and the different areas in which administrative agencies are legally authorized to act. Students will also

become familiar with the legal procedures used in administrative law cases, as well as the legal tribunals created to hear and decide administrative law cases.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 228 Employment and Labor Law (3)**

(Formerly ADLJ 228) Employment and labor law includes laws governing health and safety in the workplace, labor unions and union-management relations, employment discrimination, wrongful employment termination, pension plans, retirement and disability income (Social Security), employee privacy rights, the minimum wage, and overtime wages. Students will research Washington State workers' compensation statutes and learn about agencies where paralegals may represent clients during agency hearings.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 230 Business Organization/Corporations (3)**

(Formerly ADLJ 230) Today's business owners may choose among a variety of business entities for business formation. Besides the traditional sole proprietorship, partnership, and corporation, owners may form limited liability companies and limited liability partnerships. Students will learn about the different relationships, rights, obligations, and regulatory schemes of the various entities. In corporate law, students will develop knowledge and skill in preparing articles of incorporation, drafting corporate bylaws, preparing minutes of corporate meetings, drafting shareholder proposals, reviewing documents relating to the sale of corporate securities, assisting with corporate mergers and acquisitions, and filing papers necessary to terminate a corporation.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

## Paralegal

### **PLST 231 Contracts/Commercial Transactions (3)**

(Formerly ADLJ 231) This course provides students with a working overview of the applied contract process. Following traditional instruction methodology as supplemented with practical law office skill development, the course outlines prerequisites of contracting parties and applicable law(s), contract formation, contract performance, breach of contract and available remedies. The course introduces the students to commercial transactions including application and analysis under Article 2 of the Uniform Commercial Code (Washington State adopted version under Revised Code of Washington, Chapter 62A). Contracts and Commercial Law also includes a practicum element in basic contract drafting utilizing both goods and services components with attendant sources of law reflective of primary and secondary legal sources.

*Prerequisite: Assessment at college-level English and reading.*

### **PLST 232 Interviewing and Investigations (5)**

(Formerly ADLJ 232) Students are introduced to the legal contexts in which interviewing and investigating skills are utilized. Great emphasis is placed on the development of communication skills for interviewing and the use of resources available for investigating, particularly Internet resources. Students will walk step by step through an investigation by learning how to plan an investigation; handle evidence; identify and locate witnesses; conduct interviews; and locate, evaluate and work with expert witnesses.

*Prerequisite: Completion of ENGL /095 or both ENGL 095 & READ 095 or assessment at college-level English and reading.*

### **PLST 233 Internship I - Paralegal (5)**

(Formerly ADLJ 233) The Internship I course provides paralegal majors with the opportunity to apply their classroom learning to worksite responsibilities. The internship offers paralegal students practical work experience under the supervision of an attorney and often a skilled paralegal in day-to-day legal work. Weekly seminar discussions focus on professionalism. PLST 233 is a required course for all paralegal students.

*Prerequisite: PLST 106; and CU 105 or equivalent; and PLST 150, PLST 151, PLST 152, PLST 153, and PLST 154; and PLST 156 or equivalent with a minimum grade of C; and permission by faculty internship supervisor.*

### **PLST 234 Internship II - Paralegal (5)**

(Formerly ADLJ 234) The elective Internship II course provides paralegal majors with additional opportunities to apply their classroom learning to worksite responsibilities. Weekly seminar discussions will focus on career advancement.

*Prerequisite: PLST 233 and instructor permission.*

### **PLST 235 Evidence and e-Discovery (3)**

This course is a survey in evidence and e-Discovery. Following the groundwork and review of evidence law and discovery rules, the course will shift focus to the concepts, issues, and solutions presented by ESI (electronically stored information) and e-Discovery. Students will examine "white papers" written by both legal commentators and technical experts. Students should have an interest in current civil litigation procedures.

*Prerequisite: PLST 153 with a minimum grade of C.*

### **PLST 239 Transition Planning (1)**

(Formerly ADLJ 239) Students take this course shortly before they complete the Paralegal program. Students will build paralegal skills, critique and hone their understanding of professionalism and ethics, research the current job market and networking opportunities, learn to manage work/family balance, update their portfolios, and evaluate the program.

*Prerequisite: PLST 150, PLST 152, PLST 153, PLST 106 and instructor permission.*

### **PLST 251 Legal Research And Writing II (3)**

(Formerly ADLJ 251) Building on the research and writing skills acquired in ADLJ 151, students prepare a variety of documents including a motion with persuasive brief. Emphasis is placed on in-depth research of primary and secondary authorities, validation of research, appropriate formatting, citation of legal sources, and strategies for effective writing.

*Prerequisite: PLST 151 with a minimum grade of C.*

### **PLST 253 Civil Procedure II (3)**

(Formerly ADLJ 253) This course is a continuation of the concepts and legal applications learned in Civil Procedure I, to include further analysis of the various issues confronted in civil litigation. Students will learn to interpret and apply state and federal statutes and court rules to solve real legal problems. Students will draft various types of legal documents intended to be presented in court and will be able to formulate arguments for and against various legal positions that arise during a civil lawsuit.

*Prerequisite: PLST 153.*

## Philosophy

### **PHIL& 101 Introduction to Philosophy (5)**

(Formerly PHIL 100) This course will provide a survey of the human quest for greater understanding; connections among efforts to understand the universe; the nature of knowledge; reflections on language and other perennial questions concerning human nature and values. This course will provide an introduction to philosophical thought and issues, the intellectual systems and non-systems and writings of the great philosophers of the Western tradition. (writing intensive)

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### **PHIL 201 Ethics and Policy in Health Care I (3)**

This course introduces the student to ethics and policy issues related to nursing as a profession. Concepts include Legal Practice, Health Care Systems, Informatics, Evidence-based Practice, Safety, Teaching and Learning and Ethical Practice.

*Prerequisite: NURS 102, NURS 116, NURS 154 and NURS 192 with a minimum grade of C.*

### **PHIL 202 Ethics and Policy in Health Care II (2)**

This course introduces the student to ethics and policy issues related to nursing as a profession. Concepts include Advocacy, Managing Care, Health Policy, Ethical Practice and Accountability.

*Prerequisite: NURS 201, NURS 226, NURS 256 and NURS 294 with a minimum grade of C.*

### **PHIL 320 Ethical Decision Making (5)**

This course covers the complexities of making ethical decisions. Students will encounter major philosophical concepts and theories from the field of ethics. Students will explore the tools, and techniques to make ethical decisions. Students will cultivate their capacity for ethical perception, learn to distinguish tough choices from genuine ethical dilemmas, and gain practice deliberating effectively about a variety of ethical issues drawn from professional contexts. Students will explore the many aspects of what it means to show leadership and how ethical decision making plays a role in leadership at all levels. Students will investigate the mission, vision, and values of their profession to identify ethical standards of practice.

*Prerequisite: Acceptance to the AM BAS program and LS 301 with a minimum grade of C or instructor permission.*

### **PHIL 401 Biomedical Ethics (5)**

This course covers diverse issues in healthcare, the ethical and moral decisions that surround those issues, as well as the policies of facilities, legislation, and standards of practice that address those issues. Students will gain knowledge of leadership styles and discuss skills that will address the mission, vision, and values of their profession.

*Prerequisite: ENGL 301 with a minimum grade of C and LS 301 with a minimum grade of C. Recommended: PHIL& 101 with a minimum grade of C.*

## Physical Education

In order to receive the Associate of Arts (DTA) or Associate in General Studies degrees, it is necessary to obtain three physical education activity credits. These credits can be included in the 90 credits needed for the degrees. (Students planning to transfer to other institutions should check their requirements.)

Beginning courses are prerequisites to intermediate courses, and intermediate courses are prerequisites to advanced courses. Advanced placement may be made by the instructor. An activity at the same level may not be repeated for credit. Most activities require extra fees.

The physical education requirements may be waived only with approval of the physical education department chairman. Students may request waivers only if there is a medical problem or a student has previous military service.

### **PE 100 Total Fitness (2)**

An up-to-date approach to physical fitness for better living. Combination lecture and lab, stressing the importance of life-long fitness. Increasing the awareness and establishing the values, benefits and necessity of regular physical activity related to health. Will include individual evaluation, prescription and program implementation.

### **PE 106 Tai Chi (1)**

Tai Chi is an ancient Chinese system of health giving exercise. Students will build concentration, increase flexibility, and improve physical fitness by learning and practicing basic Tai Chi forms and movements.

### **PE 108 Beginning Weight Training (1)**

A course designed to introduce the student to the benefits of a regular weight training routine. The student will be taught various exercises in isotonic, isometric and isokinetic lifting. Safety precautions and guidelines will be stressed.

## Physical Education

### **PE 109 Toning (1)**

An upbeat, high energy course that combines aerobic movements with muscle toning strength movements. Emphasis on total body conditioning. Instruction will include the safe and effective use of fitness apparatus including physio balls and hand weights.

### **PE 111 Walking for Wellness (1)**

This course is designed to introduce the student to walking and its contributions to wellness. Content includes benefits of walking, development of safe and effective walking skills, nutrition and equipment to enhance walking, and essential components of a walking program.

### **PE 122 Beginning Bowling (1)**

A course designed to acquaint the student with the game of Bowling. Emphasis is placed on basic fundamentals, mechanics, faults and rules of bowling.

### **PE 126 Beginning Badminton & Pickleball (1)**

A course designed to allow the student to develop the necessary skills, fundamentals, strategies and knowledge of rules to participate in recreational badminton and pickleball.

### **PE 134 Softball (1)**

A course designed to introduce the student to the game of softball as a recreational and physical fitness activity. Emphasis is placed on basic individual and team fundamentals.

### **PE 135 Beginning Soccer (1)**

A course designed to introduce the student to soccer. Emphasis will be placed on basic fundamentals, strategies, and rules of the game.

### **PE 136 Volleyball (1)**

A course designed to introduce the student to the game of volleyball. Emphasis will be placed on basic skills, i.e., serve, set, pass, block, spike, team strategy and rules of play.

### **PE 140 Cardio Fitness (1)**

This course is designed to give student information and practical experience on how to maintain a healthy cardiovascular system. Physical activities, nutritional guidelines, and unhealthy behaviors pertaining to cardiovascular health will be covered.

### **PE 142 Introduction to Yoga (1)**

This course is designed to introduce students to the benefits of yoga as a way to understand the mind/body relationship in exercise and fitness. Basic yoga techniques will be taught as a way to develop balance, core strength, flexibility, and joint stability.

### **PE 155 Fast Fitness (1)**

Comprehensive physical education course designed to develop strength, flexibility, muscular endurance and cardiovascular efficiency in an effective and timely manner through the use of circuit training.

### **PE 170 Independent Fitness Lab I (1)**

Self-paced conditioning for the motivated student. This course is designed to give students the opportunity to assess current physical fitness level, establish personal fitness goals, develop and follow an individualized self-paced fitness program.

*Prerequisite: PE 100 with a minimum grade of C or PE 108 with a minimum grade of C or PE 140 with a minimum grade of C.*

### **PE 171 Independent Fitness Lab II (1)**

Self-paced conditioning for the motivated student. This course is designed to give students the opportunity to assess current fitness goals, as well as develop and follow an individualized self-paced fitness plan.

*Prerequisite: PE-170.*

### **PE 175 Hiking (1)**

This course is designed to introduce the student to basic techniques and skills necessary to enjoy minimum-impact hiking. Includes information on hiking essentials, trip planning, route finding, equipment, basic wilderness survival, and wilderness first aid. This course also includes several hiking trips throughout the quarter.

### **PE 190 Health and Wellness (3)**

A course for students to learn how to take control of their personal health and lifestyle habits so they can make a constant and deliberate effort to stay healthy and achieve the highest potential for well-being. Encompasses a total wellness concept of one's physical, mental, emotional and social well being. Students will examine major health issues of contemporary society, with emphasis on identifying risk factors. (This course is a NOT a PE activity course.)

### **PE 191 Contemporary Health and Wellness (5)**

Emphasis is placed on the relationship between course content and lifestyle choices to foster a better understanding of health issues today. Current issues include, but are not limited to, physical fitness and nutrition; weight management; stress and emotional health; chemical use and abuse; issues in contemporary human sexuality; communicable and noncommunicable disease; health-smart consumerism; the contemporary healthcare system; aging and dying; and environmental health issues. (This course is a NOT a PE activity course.)

### **PE 200 Advanced Total Fitness (2)**

An advanced approach to physical fitness for more effective living. Combination of lecture and lab stressing the importance of developing positive life-long fitness activities. Course will include evaluation, prescription, program implementation, and goal setting. *Prerequisite: PE-100 or instructor permission.*

### **PE 201 Sport Specific Conditioning (2)**

This course is designed to give advanced instruction for the physically active student. Consideration of sport specific and individual fitness goals will be given. Cardio conditioning; strength training; flexibility training, as well as the nutritional aspects of physical performance will be taught.

## Physical Education

### PE 208 Intermediate Weight Training (1)

This course is designed to develop cognitive knowledge pertaining to a higher level of strength training and applying this knowledge in a daily weight lifting program. Students will experience the benefits of weight lifting and will learn how to develop a weight training program designed to meet their personal weight training goals.

*Prerequisite: PE-108 or instructor permission.*

### PE 222 Intermediate Bowling (1)

A course designed to allow the student to improve his/her bowling skills. Emphasis on spot, pin, and line bowling. Delivery and form and playing a hookball will be emphasized.

*Prerequisite: PE 122 or instructor permission.*

### PE 226 Intermediate Badminton/Pickleball (1)

Instruction dealing with the techniques of Badminton/Pickleball. This is an intermediate level class dealing with playing strategies, tournaments, and individual playing styles.

*Prerequisite: PE 126.*

### PE 233 Advanced Basketball (1)

A course designed for the advanced basketball player who has competed at a high skill level. Special emphasis will be placed on advanced individual and team concepts.

### PE 236 Intermediate Volleyball (2)

This course is designed to allow the student to improve upon his/her basic skills of playing volleyball. To be able to compete and enjoy the sport on a recreational level.

*Prerequisite: PE 136 or instructor permission.*

### PE 237 Advanced Volleyball (1)

This course is designed to give students the opportunity to improve their volleyball skills to an advanced level of play. Emphasis will be placed on skills and techniques used as a competitive as well as recreational level.

*Prerequisite: PE 136.*

### PE 241 Baseball Techniques (1)

A course in the fundamentals of baseball.

Course content includes conditioning, basic skills, strategies, team-play concepts and rules of the game.

*Prerequisite: Experience in organized baseball-either high school or college.*

### PE 285 Coaching Theory (2)

Provides the novice and experienced coach with the basic teaching and coaching skills, techniques and strategies for coaching all sports and all ages. Includes lectures, group discussions, guest speakers, and actual performance of skills and techniques by individual class members. (This course is NOT a PE activity course.)

### PE 292 Advanced First Aid (5)

The student will satisfy the requirements for advanced American Red Cross first aid and cardiopulmonary resuscitation certification (CPR). (This course is a NOT a PE activity course.)

### PE 299 Individual Study in Physical Education (1)

An independent learning activity, designed jointly by the student and the instructor to improve and/or increase the knowledge and skill of the learner.

*Prerequisite: Instructor permission.*

## Physics

An advisor should be consulted to determine the appropriate level of physics course for your degree goal. Students intending to major in Physics at a baccalaureate institution should work toward an Associate of Science degree with a Physics Specialization.

### PHYS& 114 General Physics I (6)

Algebra-based physics for liberal arts students and certain professions. Study of basic mechanics including position, velocity, acceleration, forces, momentum, and energy. Laboratory included.

*Prerequisite: MATH 095 with a minimum grade of C or higher (but not MATH 136).*

*Recommended Preparation: MATH& 141 with a minimum grade of C.*

### PHYS& 115 General Physics II (6)

Algebra-based physics for liberal arts students and certain professions. Study of thermodynamics, oscillations, waves, capacitance, and electric forces/fields/potential/potential energy. Laboratory included.

*Prerequisite: PHYS& 114 with a minimum grade of C or MATH 095 with a minimum grade of C or higher (but not MATH 136).*

*Recommended Preparation: MATH& 141 with a minimum grade of C.*

### PHYS& 116 General Physics III (6)

Algebra-based physics for liberal arts students and certain professions. Study of DC circuits, magnetism, geometrical optics, wave optics, and modern physics. Laboratory included.

*Prerequisite: PHYS& 114 with a minimum grade of C or MATH 095 with a minimum grade of C or higher (but not MATH 136).*

*Recommended Preparation: MATH& 141 with a minimum grade of C.*

## Physics

### **PHYS& 221 Engineering Physics - Mechanics (6)**

(Formerly PHYS 121) Calculus based physics for engineering or those majoring in certain sciences. Introduces problem solving techniques and applications to real world situations. Topics include motions and causes of motion; conservation of energy, momentum and angular momentum; gravitation, center of mass, and torque. Laboratory included.

*Prerequisite: MATH& 151 with a minimum grade of C or equivalent.*

### **PHYS& 222 Engineering Physics - Electricity and Magnetism (6)**

(Formerly PHYS 122) Calculus based physics for engineering or those majoring in certain sciences. Introduces problem solving techniques and applications to real world situations. Topics include Coulomb's Law, Gauss' Laws, circuits and circuit theory, electrical devices, Ampere's Law, electric and magnetic flux, and induction. Laboratory included.

*Prerequisite: PHYS& 221 with a minimum grade of C and MATH& 152 with a minimum grade of C or equivalent.*

### **PHYS& 223 Engineering Physics - Waves, Optics, and Thermodynamics (6)**

(Formerly PHYS 123) Calculus based physics for engineering or those majoring in certain sciences. Introduces problem solving techniques and applications to real world situations. Topics include oscillations, damping, waves, interference, refraction, reflection, optical systems, fluids, specific heat, temperature, ideal gasses, and states of matter. Laboratory included.

*Prerequisite: PHYS& 221 with a minimum grade of C.*

### **PHYS 299 Independent Study (1-5)**

Independent observation, analysis, and reporting of a physics-related topic.

*Prerequisite: Instructor permission.*

## Political Science

### **POLS& 101 Introduction to Political Science (5)**

(Formerly POLSC 101) This course is intended to serve as a comparative introduction to the concepts, methods, and subject areas of the discipline of political science. Students will explore various forms of political beliefs, behaviors, institutions, and processes at the individual, group, national, and international levels. Strongly recommended for those students with no prior coursework in political science.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### **POLS& 201 Introduction to Political Theory (5)**

This course provides a survey of the underlying philosophical ideas and ideologies in the subfield of political science known as political theory. Some of the topics to be considered include essentially contested concepts like democracy, freedom, community, rights, citizenship, and justice which provide the philosophical foundation for various competing political ideologies like classical and welfare liberalism, conservatism, and socialism as well as contemporary debates on issues such as political extremism, environmentalism, feminism, human rights, and multiculturalism.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **POLS& 202 American Government (5)**

(Formerly POLSC 202) This course is intended to provide a basic understanding of the American political system. We will examine the structural foundations of American politics, including our constitutional framework, political culture, and political economy. We will then explore the various political institutions which serve as a link between citizens and government, including public opinion, the mass media, interest groups, social movements, political parties, and elections. Following this, we will turn our attention to the branches of the federal government, including Congress, the Presidency, the federal bureaucracy, and the Supreme Court.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **POLS& 203 International Relations (5)**

(Formerly POLSC 203) This course is intended to serve as an introduction to the concepts, methods, and subject areas of the field of international relations within the discipline of political science. Students will explore various forms of political beliefs, behaviors, institutions, and processes shaping the relationships between states and other non-governmental actors in the international system.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **POLS 231 Politics and Film (5)**

(Formerly POLSC 231) This course will examine a variety of political and legal issues through their portrayal in contemporary cinema. Students will read relevant Political Science literature as a background for an analysis of the films viewed in the course. Rotating themes include: elections and the presidency, law and justice, science fiction, organized labor, and American foreign policy.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **POLS 240 Environmental Politics and Sustainability (5)**

This class examines the study of politics and policies surrounding sustainability including definitions of sustainability; individual, local, state, national, and international solutions to environmental problems; economics; environmental justice; and business practices.

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **POLS 298 Political Internship (1)**

Variable credit (1-5). Students will participate in internships with either a political party, interest group, or an elected official and will meet periodically with the instructor to discuss assigned readings and a research paper based on the internship experience.

*Prerequisite: Instructor permission.*

## Psychology

### **PSYC& 100 General Psychology (5)**

(Formerly PSYCH-100) Introduction to psychology as an academic discipline, including research methods, the nervous system, heredity and development, social behavior, motivation, emotion, learning and memory, cognition, personality, and psychological disorders.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### **PSYC& 180 Human Sexuality (5)**

(Formerly PSYCH 165) A scientific approach to the study of human sexuality and sexual behavior, including physiological and psychological components. Considers sexuality across the lifespan, sexual dysfunction and therapy, STDs and safer sex, LGBT issues, pregnancy and contraception, communication and relationships.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### **PSYC& 200 Lifespan Psychology (5)**

(Formerly PSYCH 206) An examination of the physical, social, emotional, and intellectual development of the human from conception to death across cultures. (multicultural content)

*Prerequisite: PSYC& 100 with a minimum grade of C and ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **PSYC 202 Biopsychology (5)**

Biopsychology examines the biological basis of behavior, the nervous system, how it works to control behavior and sense the world, and what happens when it malfunctions. Topics include learning and memory, development, sex, drugs, sleep, the sense, emotions, and mental disorders. Course is intended for Psychology majors intending to transfer.

*Prerequisite: PSYC& 100 and ENGL& 101 with a minimum grade of C or concurrent enrollment.*

*Recommended Preparation: BIOL& 175 or concurrent enrollment.*

### **PSYC 205 Introduction to Personality (5)**

(Formerly PSYCH 205) Introduction to development and dynamics of personality, the causes of individual differences, personality change and techniques of measuring personality. A broad range of perspectives

will be covered, including psychodynamic, biological, and cognitive. This is especially useful for those with interests in counseling and clinical psychology.

*Prerequisite: PSYC& 100 and ENGL& 101 with a minimum grade of C.*

### **PSYC 209 Fundamentals of Psychological Research (5)**

This course covers the key themes and concepts of psychological research and is a foundation course for students planning to take additional courses in psychology. Topics include hypothesis testing, experimental design, research strategies and techniques, fundamentals of scientific writing, search and evaluation of research literature in psychology, and ethical issues in psychological research. (writing intensive)

*Prerequisite: PSYC& 100 and ENGL& 101 with a minimum grade of C; and either MATH 136 or MATH& 146 with a minimum grade of C (may be taken concurrently).*

### **PSYC& 220 Abnormal Psychology (5)**

(Formerly PSYCH 204) A study of the development and symptoms of mental health disorders. Topics covered include schizophrenia, mood disorders, anxiety disorders, personality disorders, psychosomatic disorders, sexual disorders, organic disorders, and the process of adjustment to stress. Attention is given to biosocial, cognitive, and cultural factors and their role in mental health. Strongly recommended for students pursuing clinical or counseling psychology or any mental health related field.

*Prerequisite: PSYC& 100 with a minimum grade of C and ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **PSYC 240 Social Psychology (5)**

(Formerly SOC 240) An introduction to the study of the basic principles underlying the field of social psychology. Topics covered will include social beliefs and attitudes, prejudice, aggression, attraction and intimacy, conformity and persuasion.

*Prerequisite: PSYC& 100 with a minimum grade of C and ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **PSYC 299 Individual Study in Psychology (1-5)**

(Formerly PSYCH 299) A variable credit (1-3) course based on independent study contracted between an instructor and a student. The emphasis will be a research related project which will provide an opportunity for students to pursue in-depth in an area previously or concurrently covered in a college-level course.

*Prerequisite: PSYC& 100 with a minimum grade of B+ and instructor permission.*

### **PSYC 301 Fundamentals of Research for Healthcare (5)**

This course will provide the student with an introduction to research methods as well as analysis and presentation of data. Topics will include a statistical analysis of healthcare data, descriptive, inferential, and vital statistics, data reporting and presentation techniques, research design and methods, and the use of Institutional Review Boards.

*Prerequisite: Acceptance into the HIM BAS program; Instructor permission only; and either MATH& 146 or MATH 136 with a minimum grade of C. Recommended preparation: PSYC& 100 with a minimum grade of C.*

### **PSYC 360 Health Psychology (5)**

Health Psychology is the scientific study of how the mind, body, and behavior interact to affect physical health and disease. A major theme that runs throughout the course includes the interrelationship between the social, cultural and systemic factors related to health and well-being. The 4 broad topics emphasized in this course include (but are not limited to): Factors underlying health habits and lifestyles; Methods used to enhance health behaviors and prevent illness and stress and stress management and finally, The services provided by the health care system and how the related patient interactions with respect to system access and utilization.

*Prerequisite: MATH 136 and MATH& 146 with a minimum grade of C; and Admission to the BAS program or Instructor permission.*



## Radiologic Science

### **RS 100 Radiologic Science Orientation (3)**

This course introduces students to the Radiologic Science program. Students learn of the program's mission and goals, professional requirements, and commitment necessary for success, as well as learning of the on-campus student support services available to them. Additionally, students will become CPR certified and initiate the process of the Washington State requirement/s for X-ray licensing.

*Prerequisite: Acceptance into the Radiologic Science program.*

### **RS 101 Fundamentals of Radiologic Science and Health Care (4)**

Content is designed to provide a foundation of the principles, practices and policies in healthcare and particularly radiology. The student will be introduced to the history of radiology, medicolegal ethics and professional associations. Radiation protection and safety, basic equipment operation, and principles of radiographic exposure will also be covered.

*Prerequisite: Acceptance into the Radiologic Science program, or instructor permission.*

### **RS 108 Radiation Physics I (4)**

This course introduces the concepts of electromagnetic radiation, its production, control and interactions. The concepts of electricity, electromagnetism, and electrical circuits relating to imaging equipment operation are presented.

*Prerequisite: RS 101 with a minimum grade of C or instructor permission.*

### **RS 109 Radiation Physics II (4)**

A continuation of Radiation Physics I. The correct and safe operation of various types of imaging equipment will be discussed. Information on radiation biology will be presented to correlate the hazards of ionizing radiation production and its interaction on human tissue.

*Prerequisite: RS 108 with a minimum grade of C or instructor permission.*

### **RS 120 Clinical Education I (5)**

Initial course in competency based radiography clinical education. Students orient to an assigned clinical education center and by instruction, observation, and experience, acquire the necessary basic skills to successfully image patients utilizing ionizing radiation.

*Prerequisite: RS 101 and RS 140 and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance and current CPR card, and instructor permission.*

### **RS 121 Clinical Education II (5)**

This is a continuation of a series of competency based clinical education classes. Students attend an assigned clinical education center and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing ionizing radiation.

*Prerequisite: RS 120 with a minimum grade of C and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance, current CPR card, and instructor permission.*

### **RS 122 Clinical Education III (10)**

This is a continuation of a series of competency based clinical education classes. Students attend an assigned clinical education center and by instruction, observation, and experience, acquire the necessary skills to successfully image patients utilizing X-ray ionizing radiation.

*Prerequisite: RS 121 with a minimum grade of C and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance, current CPR card and instructor permission.*

### **RS 140 Radiographic Positioning I (5)**

This class studies basic positioning principles and terminology. It includes demonstration and lab experience in positioning and identifying related anatomy of the chest, abdomen, upper and lower extremities.

*Prerequisite: Acceptance into Radiologic Science Program.*

### **RS 141 Radiographic Positioning II (5)**

This class studies basic positioning principles and terminology. It includes demonstration and lab experience in positioning and identifying related anatomy of the spine, hip and pelvis, and bony thorax. Common contrast media exams will also be covered.

*Prerequisite: RS 140 or instructor permission.*

### **RS 142 Radiographic Positioning III (5)**

This class emphasizes basic positioning principles and terminology regarding the skull and facial structures. General principles of mammography, bone densitometry, geriatric imaging, & contrast media exams of the biliary, central nervous, and reproductive systems are also covered.

*Prerequisite: RS 141 or instructor permission.*

### **RS 150 Principles of Image Formation (1)**

This class discusses the factors that are involved in radiographic image formation. Exposure factors and geometric factors that are involved in this process are covered.

*Prerequisite: Acceptance into Radiologic Science Program or instructor permission.*

### **RS 153 Principles of Digital Radiography (1)**

This class introduces principles of digital radiography. Basic principles of computer operation as well as its relevancy to image formation with computed radiography (CR) and digital radiography (DR) will be presented.

*Prerequisite: RS 150 or instructor permission.*

### **RS 170 Introduction to Fundamentals of Patient Care (5)**

Introduces patient care techniques commonly experienced in a radiology department such as venipuncture, proper body mechanics, sterile procedures, and medication & contrast media administration. Additionally, patient communication, HIPAA requirements and emergency CODE procedures are emphasized.

*Prerequisite: Acceptance into Radiologic Science program or instructor permission.*

## Radiologic Science

### **RS 200 Cross Sectional Anatomy (3)**

Anatomy of the human body will be studied in cross section. Anatomy of the brain, neck, thorax and heart, abdomen/pelvis and the musculoskeletal system will be presented in the transverse, sagittal, coronal, and oblique imaging planes using multiple diagnostic imaging modalities.

*Prerequisite:* BIOL& 241 with a minimum grade of C and BIOL& 242 with a minimum grade of C.

### **RS 214 Imaging Pathology (3)**

A basic review of pathology and pathologic processes as demonstrated on diagnostic images is presented. The images for review include radiographic, and cross sectional CT and MRI images.

*Prerequisite:* Instructor permission.  
RS 122 with a minimum grade of C.

### **RS 216 Pharmacology and IV Therapy (3)**

This class involves a study of drugs common to an imaging department. The general pharmacologic principles, drug categories, routes of administration, drug administration safety, and current practice standards will be discussed. A discussion of contrast agents and their associated reactions will also be presented.

*Prerequisite:* RS 170 with a minimum grade of C or instructor permission.

### **RS 225 Clinical Education IV (8)**

Students entering their second year in clinical will continue to learn new radiographic examinations while maintaining proficiency on previous exams. The students incorporate critical thinking skills and correlate them with previous experiences to enhance their ability to function more independently.

*Prerequisite:* RS 122 with a minimum grade of C and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance, current CPR card and instructor permission.

### **RS 226 Clinical Education V (7)**

Students in the second year of competency based clinical instruction rotate to a new clinical education center and by instruction, observation, and experience, continue to acquire new skills while refining and maintaining proficiency in previously learned examinations. Students incorporate critical thinking skills and correlate it with previous experiences to enhance their ability to function more independently.

*Prerequisite:* RS 225 with a minimum grade of C and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance, current CPR card and instructor permission.

### **RS 227 Clinical Education VI (7)**

Students in the second year of competency based clinical instruction are assigned to a clinical education center and by instruction, observation, and experience, continue to acquire new skills while refining and maintaining proficiency in previously learned examinations. Students incorporate critical thinking skills and correlate it with previous experiences to enhance their ability to function more independently.

*Prerequisite:* RS 226 with a minimum grade of C and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance, current CPR card and instructor permission.

### **RS 228 Clinical Education VII (10)**

This is a capstone competency based clinical class in preparation for entry level clinical practice. Students in the second year of instruction are assigned to a clinical education center and continue to acquire new skills, while refining and maintaining proficiency in previously learned examinations. Students incorporate critical thinking skills and correlate it with previous experiences to enhance their ability to function more independently.

*Prerequisite:* RS 227 with a minimum grade of C and required immunizations, drug screening as required, background check, proof of medical insurance, proof of automobile insurance, current CPR card and instructor permission.

### **RS 233 Leadership and Management (1)**

Studies leadership skills associated with patient care and management. Concepts discussed will include: supervision, delegation, conflict resolution, leadership styles, the work environment, responsibility, accountability, collaboration and résumé preparation.

*Prerequisite:* RS 225 with a minimum grade of C.

### **RS 243 Radiographic Positioning IV (3)**

Demonstration and lab experience of alternate and special positioning of the upper and lower extremities, thoracic cage, shoulder girdle, pelvis, and spinal column. This course also includes a review of basic head work and special positioning of the orbit and temporomandibular joint. Information will be included for performing pediatric and trauma projections. A review of imaging with emphasis on basic quality assurance and image evaluation.

*Prerequisite:* RS 142 with a minimum grade of C or instructor permission.

### **RS 244 Radiographic Positioning V (3)**

Advanced patient care procedures involving pediatric and/or severe trauma patient. Special emphasis on child and elder abuse. Includes information for the geriatric, pediatric and patient with disabilities to meet The Joint Commission requirements.

*Prerequisite:* RS 243 with a minimum grade of C or instructor permission.

### **RS 250 Advanced Healthcare Organization (3)**

A closer look at the healthcare organization with emphasis on radiology. Radiology quality control and quality assurance factors will be presented. The five major content areas of diagnostic imaging will be correlated with quality patient care.

*Prerequisite:* RS 244 with a minimum grade of C and RS 101 with a minimum grade of C; or instructor permission.

## Radiologic Science

### **RS 255    Advanced Imaging Modalities (2)**

An overview of CT, MRI, U/S, NM and other advanced imaging modalities. The emphasis will be on the various energies used to generate images, the equipment and other dynamics of the imaging environment.

*Prerequisite:* RS 108 with a minimum grade of C and RS 109 with a minimum grade of C and must be a second year Radiography Science student. Instructor permission.

### **RS 280    Computed Tomography (2)**

This course presents CT imaging basics and contrasts it with conventional X-ray imaging.

### **RS 290    Radiography Registry Review (2)**

This course prepares students to sit for the national registry exam administered by the American Registry of Radiologic Technologists (ARRT). Mock exams will be used to prepare students for the registry's content areas.

### **RS 299    Independent Study (1)**

Independent learning activity, designed jointly by the student and instructor, to improve and/or increase the knowledge and skill of the learner.

*Prerequisite:* Program chair permission.

## Respiratory Therapy

### **RC 150    Fundamentals of Respiratory Care I (4)**

Introduces the beginning respiratory care student to basic procedures and skills required in the field. Covers principles and practices of patient assessment, hospital safety, aerosol therapy, bronchial hygiene and hyperinflation therapies.

*Prerequisite:* Accepted into the Respiratory Care Program.

### **RC 151    Fundamentals of Respiratory Care II (4)**

Course will continue to build on the clinical skills and knowledge base acquired in RC 150. The Respiratory Care student will be introduced to the critical care environment this quarter. Emphasis is placed on airway management, diagnostic testing and non-invasive ventilation.

*Prerequisite:* RC 150.

### **RC 152    Introduction into Mechanical Ventilation (4)**

Course will continue to build on the clinical skills and knowledge base acquired in RC 150 & 151. This course is to introduce the respiratory student to basic concepts in Mechanical Ventilation including initiation of mechanical ventilation, modes of ventilation, ventilator management and weaning.

*Prerequisite:* RC 151.

### **RC 153    Alternative Procedures in Respiratory Care (3)**

This course will provide students with knowledge regarding special procedures they will be assisting physicians in performing as well as introducing additional skills based upon Respiratory Care Scope of Practice. Information presented will build upon previously studied pathophysiologies as well as set-up, procedural skills and processing of specimens obtained when applicable. The course will be a combination of lecture and lab skills practice.

*Prerequisite:* RC 152 with a minimum grade of C.

### **RC 160    Cardiopulmonary A & P and Pathophysiology (4)**

Course is designed to provide students with information about the structure and function of the respiratory system. Knowledge of a structure is essential to the understanding of the function of the structures, therefore topics include: respiratory and cardiac anatomy and progress to major concepts and mechanisms of cardiopulmonary physiology.

*Prerequisite:* Accepted into the Respiratory Care Program.

### **RC 161    Arterial Blood Gases (3)**

Course is designed to provide students with additional information about the function of the respiratory system. The student will gain knowledge and interpretation skills regarding the function of gas exchange in the lungs as well as how normal blood gas values change in different disease states. Included will be a comprehensive overview of the subject matter in an organized, interesting manner in the form of lecture, small group discussion, or student presentations.

*Prerequisite:* RC 160.

### **RC 162    Advanced RC Pathophysiology (3)**

Course is designed to provide students with advanced information about disease processes. General pathophysiology provides a foundation of information for the student to apply in the specialty area of respiratory care. Included will be a comprehensive overview of the disease process in an organized, interesting manner in the form of lecture, small group discussion, or student presentations.

*Prerequisite:* RC 161 with a minimum grade of C.

## Respiratory Therapy

### **RC 165 Evolving Roles in Respiratory Therapy (2)**

This course introduces students to current and future trends in health care. Specifically, this course will cover traditional and new roles for respiratory therapists and will present possibilities and tactics for respiratory therapists to work across the range of patient care.

*Prerequisite: Enrolled in the RC program.*

### **RC 171 Respiratory Therapy Equipment II (3)**

Course is designed to provide first-year RC students with a background on the principles and technologies of emergency airway management, tracheostomy management, non-invasive patient monitoring, bedside pulmonary function assessment, true volume measuring devices vs. pneumotachometer devices, and RC home medical equipment including patient comfort and compliance issues.

*Prerequisite: RC 175 with a minimum grade of C.*

### **RC 172 Respiratory Therapy Equipment III (4)**

Course will provide the principles and technologies for the student to assimilate and interrelate technical and physiological criteria for treating patients on mechanical ventilation (CMV). Students learn logical thinking required to troubleshoot ventilator problems in the ICU and utilize different types of ventilators to gain confidence, proficiency, and appreciate the level of sophistication to which modern ventilators have risen.

*Prerequisite: RC 171.*

### **RC 175 Respiratory Care Orientation (2)**

Course will provide application of the basic skills required for patient care. The students will learn essential body mechanics to avoid injury; infection control principles; required confidentiality information; legal and ethical principles; and an introduction to vital signs. Students will also complete CPR certification, HIV/AIDS certification for healthcare providers, and receive their program student handbooks.

*Prerequisite: Accepted into the Respiratory Care Program.*

### **RC 180 Respiratory Therapy Clinical I (3)**

Course is designed to prepare the beginning Respiratory Care student to perform basic respiratory therapeutic modalities in the hospital setting. Emphasis is placed on patient assessment techniques, oxygen therapy, and bronchial hygiene. This class consists of a lab/clinical rotation.

*Prerequisite: Accepted into the Respiratory Therapy Program.*

### **RC 181 Respiratory Therapy Clinical II (3)**

Course will continue to build on the clinical skills and knowledge base acquired in first quarter. The Respiratory Care student will be introduced to the critical care environment this quarter. Emphasis is placed on airway management, ECG's, arterial blood gases, non-invasive ventilation and CPAP. This class consists of a lab/clinical rotation.

*Prerequisite: RC 180 with a minimum grade of C.*

### **RC 182 Respiratory Therapy Clinical III (3)**

Course is intended to prepare the third quarter Respiratory Care student to care for patients in the Intensive Care Unit. Topics covered will include the initiation and care of the patient receiving mechanical ventilation and special RC procedures. This class consists of a lab/clinical rotation.

*Prerequisite: RC 181 with a minimum grade of C.*

### **RC 183 Respiratory Therapy Clinical IV (4)**

This is the final clinical course of the first year of the respiratory program. Students are expected to use this time at the clinical sites to polish their clinical skills, improve their time management skills and increase their comfort level and autonomy in the clinical setting in order to be prepared for the advanced clinical courses in the second program year.

*Prerequisite: RC 182 with a minimum grade of C.*

### **RC 192 Advanced Mechanical Ventilation (4)**

Course content will emphasize advanced mechanical ventilator applications including non-conventional approaches to patient management in both adult and the pediatric/neonatal settings.

*Prerequisite: RC 152 with a minimum grade of C.*

### **RC 193 Respiratory Pharmacology I (1)**

This is the first in a series of three courses in pharmacology. General pharmacological principles, drug classification, computations, routes of delivery and respiratory medication are emphasized.

*Prerequisite: Accepted into the Respiratory Care program.*

### **RC 194 Respiratory Pharmacology II (1)**

This is the second in a series of three courses in pharmacology dealing with principles of mucolytics, antiasthmatics, antimicrobials, anti-inflammatory agents, surface-active and special applications.

*Prerequisite: RC 193 with a minimum grade of C.*

### **RC 195 Respiratory Pharmacology III (1)**

This is the third in a series of three courses in pharmacology dealing with principles in cold and cough agents, neonatal/pediatric aerosolized drug therapy, diuretics, cardiovascular pharmacology and the drugs affecting the central nervous system.

*Prerequisite: RC 194 with a minimum grade of C.*

### **RC 240 Advanced Assessment and Diagnosis (3)**

Course will provide second year students with information necessary to care for the critically ill patient. Advanced assessment and diagnosis takes general knowledge learned in first year theory classes and further analyzes patient assessment values to help students make more informed decisions regarding interventions necessary to support the respiratory patient during stabilization and care.

*Prerequisite: RC 153 with a minimum grade of C or equivalent.*

## Respiratory Therapy

### **RC 251 Respiratory Pathophysiology Case Presentations (2)**

Course is designed to provide students with an introduction into problem based learning and evidenced based medicine using pathophysiology cases. Included will be a comprehensive overview of the various disease processes, surgical procedures, and new respiratory therapy technology.

*Prerequisite:* RC 162 with a minimum grade of C.

### **RC 261 Pediatric and Neonatal Respiratory Care (4)**

Course will provide second year students with an overview of pediatric and neonatal diseases. The field of neonatology/pediatrics is highly dynamic and requires up to date knowledge of clinical and technical skills. A neonatal/pediatric RCP is expected to be able to perform as an integral part of the highly specialized health care team as well as develop critical thinking skills.

*Prerequisite:* RC 162 with a minimum grade of C.

### **RC 262 Review of Applications of Respiratory Care (4)**

Course will provide students with a review for the advanced level practitioner written and clinical simulation NBRC examinations. Included will be comprehensive overviews of all respiratory subject matter, including: Analysis of Date, Equipment, and Therapies.

*Prerequisite:* RC 152 and RC 261 with a minimum grade of C or equivalent; or instructor permission.

### **RC 263 Pulmonary Functions (3)**

Course will provide students with information necessary for understanding Pulmonary Function Testing, Exercise Testing, and their interpretations. Included will be a comprehensive overview of the subject matter in the form of lecture, small group discussion, or student presentations.

*Prerequisite:* Accepted into the Respiratory Therapy Program.

### **RC 272 Pulmonary Rehabilitation, Home Care, and Assistance in Specialty Procedures (3)**

Course will provide students with information about the alternate settings of pulmonary rehabilitation and home care.

*Prerequisite:* Accepted into the Respiratory Therapy Program.

### **RC 280 RC Specialty Clinical I (4)**

Course will prepare the second year Respiratory Care student to perform advanced respiratory therapeutic modalities in a variety of settings. Emphasis is placed on advanced assessment techniques and patient education. This class consists of a clinical rotation only. Students will be assigned to Tuesday, Wednesday, or Thursday clinical days.

*Prerequisite:* RC 183 with a minimum grade of C.

### **RC 281 Advanced Critical Care Clinical Rotation (4)**

Course will prepare the second year Respiratory Care student to perform advanced respiratory therapeutic modalities in a variety of settings. Emphasis is placed on advanced assessment techniques and patient education. This class consists of a clinical rotation only. Students will be assigned to Tuesday, Wednesday, or Thursday clinical days.

*Prerequisite:* RC 280 with a minimum grade of C.

### **RC 282 Neonatal Clinical Rotation (2)**

Course will prepare the second year Respiratory Care student to perform advanced respiratory therapeutic modalities in a neonatal intensive care setting. Emphasis is placed on patient assessment techniques. This class consists of a five-week clinical rotation.

*Prerequisite:* RC 281 with a minimum grade of C.

### **RC 283 Specialty Clinical Rotation II (2)**

Course is designed to prepare the second year Respiratory Care student as an expert respiratory care practitioner. This five-week rotation is the last clinical rotation before graduation; therefore, students are encouraged to do their final rotation at their desired place of employment. This class consists of a clinical rotation only.

*Prerequisite:* RC 281 with a minimum grade of C.

### **RC 290 Ethics and Professionalism in Respiratory Care (2)**

While providing care and delivering therapies, RCP's must be continuously aware of the legal and ethical implications of the services they deliver and their actions while delivering them. This course will provide students with information necessary for understanding legal issues and for making ethical decisions in respiratory care.

*Prerequisite:* Enrolled into the RC program.

### **RC 299 Individual Study in Respiratory Therapy (1)**

Independent learning activity designed jointly by student and instructor to improve and/or increase the learner's knowledge and skill.

*Prerequisite:* Instructor permission.

## Science

### SCI 105 Introductory Topics in Natural Science (5)

Concepts from multiple scientific fields (including biology, chemistry, physics, and the earth and space sciences) will be investigated through the in-depth exploration of an applied interdisciplinary topic. This course will provide introductory-level science students with an expansive understanding of scientific principles, methods, and techniques. Laboratories and field work included.

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent; and MATH 090 with a minimum grade of C (may be taken concurrently) or equivalent or MATH 093 with a minimum grade of C (may be taken concurrently) or equivalent.*

### SCI 294 Undergraduate Research in Science (1-5)

Students will work as a part of a team for the quarter to conduct research in the Natural Sciences. The course will involve either laboratory or field study depending on the project, evaluation of primary research papers relevant to the project, and presentation of project results.

*Prerequisite: Instructor permission only.*

## Social Science

### SOCSC 204 Psychosocial Issues in Healthcare I (3)

This course examines concepts necessary for the effective provision of healthcare in the psychosocial domain. It addresses determinants of health and illness across the lifespan, including social, psychological, environmental, spiritual, and cultural dimensions. Concepts include communication, family, culture & diversity, spirituality, caring interventions, development, stress and coping, and self.

*Prerequisite: Admission to the Nursing Program.*

### SOCSC 205 Psychosocial Issues in Healthcare II (2)

This course examines concepts necessary for the effective provision of healthcare in the psychosocial domain. It addresses determinants of health and illness across the lifespan, including social, psychological, environmental, spiritual, and cultural dimensions. Concepts include cognition, violence, mood and affect, behavior, and stress and coping.

*Prerequisite: NURS 103, NURS 124, NURS 155, NURS 193 and PHIL 201 with a minimum grade of C.*

## Sociology

### SOC& 101 Introduction to Sociology (5)

(Formerly SOC 110) An introduction to the basic concepts and theories of sociology with an emphasis on the group aspects of human behavior. (multicultural content)

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### SOC 120 Introduction to Women's Studies (5)

Introduction to the study of women, feminism, and theories of oppression and privilege, particularly with respect to gender, sexuality, race, class, and sexual orientation. Topics include systems of oppression, gender socialization, sexuality, violence, and social institutions such as family, health care, media, religion, legal systems, work and labor, and education. (multicultural content)

*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent.*

### SOC 200 Introduction to Research Methods for Sociologists (5)

This course is an introduction to research methods in sociology, covering quantitative, qualitative, primary and secondary data and defining the basic types of research method including social surveys, experiments, interviews, focus groups, participant observation, ethnography and longitudinal studies. This course will also review general issues in the design and implementation of research projects, as well as specific issues that arise in conducting interviews and field observations, constructing and administering surveys, analyzing existing data, and planning program evaluations.

*Prerequisite: SOC& 101 with a minimum grade of C; and ENGL& 101 (may be taken concurrently); and either MATH& 146 or MATH 136 (may be taken concurrently).*

### SOC& 201 Social Problems (5)

(Formerly SOC 270) A macro-sociological approach to the study of social problems with special emphasis on the effects of institutional change in the economic, educational, family, political, religious, and other systems of contemporary human societies. (multicultural content)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

## Sociology

### **SOC 205 Sociology of African Americans (5)**

This course explores the socio-historical experiences of African Americans. We will investigate the social history of African Americans in the United States, oppression and the perpetuation of social inequality, current demographic trends, issues of race, class, gender, and family, and contemporary sociological issues of African Americans. We will also debate solutions to various social problems that are of particular concern to the black community. (multicultural course)  
*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 222 Sociology of Sport (5)**

Introduction to the sociological analysis of sport. There will be a particular emphasis on: race, class, gender, and sexuality issues within sport; socialization and interactions within sport; sport and education; deviance, crime, and violence in sport; the business and economics of sport. (multicultural course)  
*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 238 Sociology of Latinx Americans (5)**

This course provides students with a critical overview of some of the central themes and issues that have shaped the experiences of Latinx populations in the U.S. Topics this course will cover include: the history of the "Hispanic" and "Latinx" ethnic labels; U.S.-Latin American relations; different issues faced by various ethnic communities; and the politics of language and bilingualism. Course materials will draw primarily from articles, books, and documentaries to discuss the ways in which Latin Americans influence U.S. society and culture. (multicultural course)  
*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 255 Sociology of Military and Society (5)**

This course examines the military as a social institution with emphasis on the United States. As an institution, the military intersects with other social institutions, such as labor and credit markets, education, and the family. We will investigate the internal organization, practices, and social history of the U.S. military and how it impacts outcomes for race, class, sex, citizen and education status, sexual orientation, and ability. (Multicultural course)

*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 262 Race and Ethnic Relations (5)**

Builds upon and expands the students' understanding of race and ethnic relations in American contemporary society. Focuses on how immigrant groups adapt to a new country, manifestations of racism and discrimination, as well as the economic and social progress of different ethnic groups. Explores how to alter patterns of racial and ethnic inequality through social movements and social policy. (multicultural course)  
*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 265 Sociology of Asian Americans (5)**

This course explores the socio-historical experiences of Asian American groups. We will investigate the history of Asian immigration to the United States, discriminatory and anti-Asian legislation, factors influencing social inequality amongst Asian American ethnic groups, current demographic trends, issues of race, class, gender, and family, and contemporary sociological issues of Asian Americans. (multicultural course)  
*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 271 Introduction to the Sociology of Deviance and Social Control (5)**

Analysis of deviant behavior from the perspective of sociological theory and research. Emphasis is on developing a sociological understanding and critical analysis of social theory relating to deviant, criminal, and violent behavior in various societies.  
*Prerequisite: ENGL& 101 with a minimum grade of C or concurrent enrollment.*

### **SOC 299 Individual Study (1-5)**

A variable credit (1-5) course based on independent study contracted between an instructor and a student. The emphasis will be a research related project which will provide an opportunity for students to pursue in-depth in an area previously or concurrently covered in a college-level course.  
*Prerequisite: SOC& 101 with a minimum grade of B+ and instructor permission.*

## Spanish

The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum.

### **SPAN& 121 Spanish I (5)**

(Formerly SPAN-101) The first year of the beginning Spanish language sequence consists of 121, 122, and 123. SPAN&-121 is the first quarter of the sequence. The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: ENGL/ 095 with a minimum grade of C or equivalent or instructor permission.*

## Spanish

### **SPAN& 122 Spanish II (5)**

(Formerly SPAN-102) SPAN&-122 is the second quarter of the first-year language sequence and continues to build on the skills acquired in SPAN&-121. The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: SPAN& 121 with a minimum grade of C or instructor permission.*

### **SPAN& 123 Spanish III (5)**

(Formerly SPAN-103) SPAN&-123 is the third quarter of the first-year language sequence and continues to build on the skills acquired in SPAN&-122. The basic tenets of communications including reading, writing, speaking, and listening are developed in a dynamic second language acquisition environment enhanced by technology. Grammar is used as a communication tool to express meaning as students take part in small group discussions, cultural investigation, and presentation. Authentic materials will be focused on in the class as well as assessment. Students should expect to be immersed in the language. English will be used at a minimum. (Multicultural Course)  
*Prerequisite: SPAN& 122 with a minimum grade of C or instructor permission.*

### **SPAN& 221 Intermediate Spanish I (5)**

The second year intermediate level Spanish language sequence consists of 221, 222 and 223. SPAN& 221 is the first quarter of the sequence. Classes will focus on the use of listening, speaking, reading and writing skills in the Spanish language in order to analyze, examine and explore oral and written communication using a variety of topics through authentic materials, in all major time frames, reinforcing knowledge from other disciplines through Spanish. (multicultural content)

*Prerequisite: SPAN& 123 with a minimum grade of C or equivalent; or instructor permission.*

### **SPAN& 222 Intermediate Spanish II (5)**

SPAN& 222 is the second quarter of the sequence. Classes will focus on the use of listening, speaking, reading and writing skills in the Spanish language in order to analyze, examine and explore oral and written communication using a variety of topics through authentic materials, in all major time frames, reinforcing knowledge from other disciplines through Spanish. (multicultural content)

*Prerequisite: SPAN& 221 with a minimum grade of C or equivalent; or instructor permission.*

### **SPAN& 223 Intermediate Spanish III (5)**

SPAN& 223 is the third quarter of the sequence. Classes will focus on the use of listening, speaking, reading and writing skills in the Spanish language in order to analyze, examine and explore oral and written communication using a variety of topics through authentic materials, in all major time frames, reinforcing knowledge from other disciplines through Spanish. (multicultural content)

*Prerequisite: SPAN& 222 with a minimum grade of C or equivalent; or instructor permission.*

### **SPAN 299 Independent Study in Spanish (1-5)**

A course where students can study more in-depth topics involving Spanish language. Often including readings in Spanish and Latin American literature. Topics will be selected by students, with instructor's approval.

*Prerequisite: SPAN& 123 or equivalent class and instructor permission.*

## Supervision & Mgmt.

Please contact Invista Performance Solutions at 253-583-8867 for details.

### **SMG 101 Effective Supervision (5)**

This course will provide participants with an overview of critical management and supervisory behaviors and strategies. Course content will include a review of the traditional approaches to managing people and the more current methodology of shared governance or participatory management. The intent is to enhance supervisory skills, to improve supervisory effectiveness, strengthen interpersonal workplace relationships, and improve organizational climate and productivity. This course will also review the various roles, responsibilities, and challenges facing first-line supervisors in today's changing workplace environment.

*Prerequisite: Instructor permission.*

### **SMG 120 Supervising the Problem Employee (0)**

This course provides various strategies for supervising or managing a problem employee. Course content emphasizes the importance of coaching, counseling, providing "performance-based feedback," and implementing progressive discipline techniques to change behavior and improve performance. Participants will learn intervention techniques, and will use workplace employee problem scenarios to practice new skills.

*Prerequisite: Instructor permission.*

### **SMG 201 Management Communications (3)**

Supervisors will learn to communicate more effectively to improve employee satisfaction and heighten employee retention. Course content includes analyzing and practicing basic communication principles and techniques, and will provide methods for overcoming obstacles to effective communication. Participants will also be introduced to effective listening techniques. Emphasis is on practical workplace application.

*Prerequisite: Instructor permission.*



## Supervision & Mgmt.

### **SMG 261 Dynamics of Leadership (3)**

This course compares and contrasts the role of leaders, managers, and front-line supervisors in an organization. Participants will examine the traits, qualities, skills, and workplace actions of effective supervisors and managers. Participants will self-assess their own leadership style, and evaluate their effectiveness after reviewing individual strengths and weaknesses.

*Prerequisite: Instructor permission.*

### **SMG 264 Motivation and Productivity (3)**

This course examines methodologies used in the workplace to obtain sustained peak performance from employees. Course content will review effective supervisory techniques and communication strategies. Participants will examine alternatives to “command-and-control” and “management-by-compliance” management approaches. The concepts of feedback and intrinsic (as opposed to extrinsic) rewards are emphasized as the foundation for a highly motivational work environment. Emphasis is on the role of the supervisor and the interaction between supervisor and the employee in building a highly motivational workforce.

*Prerequisite: Instructor permission.*

## Writing Center

### **WRITE 095 Tools for Reading and Writing (2)**

An optional course designed to strengthen both reading and writing skills, and to increase success in ENGL-101 ALP. Students will work in small groups with coaching from an instructor.

*Prerequisite: Assessment at or above ENGL 095 and READ 095 or ENGL/ 095, or completion of ENGL 085 and READ 085 with a minimum grade of C or ENGL/ 085 with a minimum grade of C or EAP 155 and EAP 159 with a minimum grade of C*

### **WRITE 096 Writing Center Tutorials (1)**

This is a laboratory course that offers students one-to-one tutorial help with assignments for classes where writing is required.

No prerequisites, no outside work required. At least nine 50-minute tutorial sessions per quarter, or seven during summer quarter, must be completed for credit. If there is space in the course, it can be added up to midterm with instructor permission. May be taken a total of four times and is graded as Satisfactory/Unsatisfactory.

### **WRITE 140 Writing Center Tutor Practicum I (2)**

Provides qualified students with training in assisting students in one-on-one tutorial sessions at the Writing & Tutoring center. Topics of study include writing and writing center theories, tutoring strategies, and responding to writing. Course includes regular tutor discussion group meetings and activities in Canvas. Students may have the opportunity to apply tutoring skills in actual sessions and to earn the first level of International Tutoring Program Certification (ITTPC).

*Prerequisite: ENGL 095 or ENGL/ 095 and instructor permission.*

### **WRITE 141 Writing Center Tutor Practicum II (2)**

Provides qualified students with training and experience in assisting students in one-on-one tutorial sessions at the Writing & Tutoring Center. Course study includes advanced tutoring topics such as working with at-risk students. Course includes regular tutor discussion group meetings and activities in Canvas. Students will apply tutoring skills in actual sessions and have the opportunity to earn the second level of International Tutoring Program Certification (ITTPC).

*Prerequisite: WRITE 140.*

### **WRITE 142 Writing Center Tutor Practicum III (2)**

Provides qualified students with training and experience in assisting students in one-on-one and group tutorial sessions at the Writing & Tutoring Center. Includes the opportunity to hold a tutoring leadership role. Course includes regular tutor discussion group meetings and activities in Canvas. Students will apply tutoring skills in actual sessions and have the opportunity to earn the third level of International Tutoring Program Certification (ITTPC).

*Prerequisite: WRITE 141.*