

# 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, ENVS& 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

ENGL	271	Contemporary American Literature
ENGL	276	Creative Writing – Fiction (P/S)
ENGL	278	Creative Writing – Poetry (P/S)
ENGL	280	Literatures of Diversity
ENGR&	114	Engineering Graphics
GERM&	121	German I
GERM&	122	German II
GERM&	123	German III
GERM	201	Intermediate German I
GERM	202	Intermediate German II
HIST&	219	Native American History
HIST	231	American History, American Film
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
HUM	130	Introduction to Film
HUM	179	Themes or Topics in Humanities
HUM	285	The City
JAPN&	121	Japanese I
JAPN&	122	Japanese II
JAPN&	123	Japanese III
MUSC&	105	Music Appreciation
MUSC	106	World Music
MUSC	110	Introduction to Digital Music
MUSC	120	Music in the Classroom
MUSC	122	Class Applied Music: Voice (P/S)
MUSC	124	Class Applied Music: Piano I (P/S)
MUSC	125	Class Applied Music: Piano II (P/S)
MUSC	126	Class Applied Music: Piano III (P/S)
MUSC	131	Applied Lessons: Strings 1 (P/S)
MUSC	132	Applied Lessons: Brass 1 (P/S)
MUSC	133	Applied Lessons: Woodwind 1 (P/S)
MUSC	134	Applied Lessons: Percussion 1 (P/S)
MUSC	135	Applied Lessons: Keyboard 1 (P/S)
MUSC	136	Applied Lessons: Voice 1 (P/S)
MUSC&	141	Music Theory I
MUSC&	142	Music Theory II
MUSC&	143	Music Theory III
MUSC	152	Chamber Choir I (P/S)
MUSC	160	Orchestra I (P/S)
MUSC	161	Symphonic Band I (P/S)
MUSC	165	Jazz Band I (P/S)
MUSC	179	Special Topics in Music
MUSC	231	Applied Lessons: Strings 2 (P/S)
MUSC	232	Applied Lessons: Brass 2 (P/S)
MUSC	233	Applied Lessons: Woodwind 2 (P/S)

MUSC	234	Applied Lessons: Percussion 2 (P/S)
MUSC	235	Applied Lessons: Keyboard 2 (P/S)
MUSC	236	Applied Lessons: Voice 2 (P/S)
MUSC&	241	Music Theory IV
MUSC&	242	Music Theory V
MUSC&	243	Music Theory VI
MUSC	252	Chamber Choir II (P/S)
MUSC	260	Orchestra II (P/S)
MUSC	261	Symphonic Band II (P/S)
MUSC	265	Jazz Band II (P/S)
PHIL&	101	Introduction to Philosophy
PHIL	201	Ethics and Policy in Health Care I
PHIL	202	Ethics and Politics in Health Care II
PHIL	320	Ethical Decision Making
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

*(P/S) = Performance/Skills courses. No more than five credits of Performance/Skills courses may be used to satisfy the Humanities distribution requirement.*

## Multicultural

ANTH&	100	Survey of Anthropology
ANTH&	206	Cultural Anthropology
ANTH&	207	Linguistic Anthropology
ANTH&	210	Indians of North America
ART&	100	Art Appreciation
BUS	150	Global Business
CHIN&	121	Chinese I
CHIN&	122	Chinese II
CHIN&	123	Chinese III
CMST	110	Multicultural Communications
EDUC	220	Diversity in Education
ENGL	234	Introduction to Mythology and Folk Stories
ENGL	242	Contemporary Non-Western Literature
ENGL&	227	British Literature II
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	280	Literatures of Diversity

# 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
ENVS	179	Special Topics in Environmental Science
ENVS	210	Maps, GIS and the Environment (lab)
GEOG	205	Physical Geography (lab)
GEOG	210	Maps, GIS and the Environment (lab)
GEOL&	101	Introduction to Physical Geology (lab)
GEOL	108	Fossils and the History of Life (lab)
GEOL	125	Geology in the Field (lab)
GEOL	179	Special Topics in Geology
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

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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 ENV5& 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.