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 parallel 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-Level Education (Transfer)

College Transfer Areas

Students can prepare at TCC for the following university transfer areas, and others, while completing requirements for the two-year associate degree:

» Accounting
» American Ethnic & Gender Studies
» Anthropology
» Arabic
» Architecture
» Art
» Biochemistry
» Biology
» Botany
» Business
» Chemistry
» Chinese
» Chiropractic
» Communications
» Computer Science
» Dental Hygiene
» Dentistry
» Earth Science
» Economics
» Education
» Engineering
» English
» Environmental Science
» Exercise Science
» Forestry
» Geology
» German
» History
» Humanities
» International Business
» Japanese

» Law
» Liberal Arts
» Mathematics
» Medical Technology
» Medicine
» Microbiology
» Molecular Biology
» Music
» Naturopathic Medicine
» Nursing/BSN
» Nutrition
» Occupational Therapy
» Oceanography
» Optometry
» Pacific Rim Studies
» Pharmacy
» Physical Education
» Physical Therapy
» Physics
» Political Science
» Pre-Nursing
» Psychology
» Social Science
» Social Work
» Sociology
» Spanish
» Speech
» Veterinary Medicine
» Wildlife Biology
» Zoology

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.

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, DRAM& 101, ENGL& 111, 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 in a different discipline can be taken from any category listed above.

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).

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 in Arts
  Option A on page 45
  Option B on page 46
• Associate in Biology, page 47
• Associate in Business, page 48
• Associate in Elementary Education page 50
• Associate in Pre-Nursing, page 52
• Associate in Science, page 54
  Specialization Courses, page 55
• Associate of Science in Bioengineering and Chemical Engineering, page 56
• Associate of Science in Electrical and Computer Engineering, page 57
• Associate of Science in Mechanical, Civil, Aeronautical, Industrial & Material Science Engineering, page 58

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 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 & ORAL COMMUNICATION

Upon successful completion of ENGL& 101 and/or CMST 220, 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

Students will demonstrate increasing levels of mastery of the Program Learning Outcomes. Upon successful completion of the Quantitative Skills requirement for the Associates degree, students will:
- 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.

NATURAL SCIENCES

Upon successful completion of the Natural Sciences distribution requirements for the Associate in Arts, Option A or B, the Associate of Sciences degrees, or the Associate in Biology 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.

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 Associates Degree, students will:
- Know and recall important ideas and facts relating to Humanities program subject areas (Art, Creative Writing, Foreign Languages, Humanities, Literature, Music, and Philosophy).
- Apply critical thinking skills to explore and interpret the human experience.
- Utilizing various media, create and communicate content understanding.
- Demonstrate empathy and understanding based on recognition of historical and cultural contexts in more than one Humanities subject area.
Associate in Arts

DEGREE COMPLETION REQUIREMENTS

• 90 quarter credit hours in courses numbered 100 or above, including the distribution requirements listed below under the heading Option A 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 associate 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.
• Option A Degree: At least one course (five credits) of the 90 credits applied toward graduation must be a designated multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List (page 60) and in the Credit Course Descriptions section. 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. See the distribution electives below.

Option A Degree

(DTA Transfer Degree)

This TCC degree is directly transferable to most Washington baccalaureate institutions (four-year colleges and universities). The Associate in Arts 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)

WRITTEN COMMUNICATION SKILLS (10 CREDITS)

» ENGL& 101 ................ English Composition I
» ENGL& 102 ................. Composition II: Argument & Persuasion
or ENGL 103 ............... Composition III: Writing about Literature

QUANTITATIVE SKILLS (5 CREDITS)

Select from the courses listed below. Each of these courses carries a prerequisite of MATH 95, MATH 140 or TMATH 100.

» 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

PHYSICAL EDUCATION

Upon successful completion of the Physical Education distribution requirements (three credits) for the Associates 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.
» MATH 220.................. Linear Algebra  
» MATH 238.................. Elements of Differential Equations  
» MATH& 254................. Calculus IV

**Distribution Requirements (60 credits)**  
*Individual credits may be counted in only one distribution area.*

**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 five credits of performance/skills course(s) can 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.

**NATURAL SCIENCES (15 CREDITS)**  
» Select courses from the Natural Sciences section of the Approved Distribution Course List. Courses must be selected from at least two disciplines and must include at least two laboratory courses.

**MULTICULTURAL (5 CREDITS)**  
» Select one course from the Multicultural section of the Approved Distribution Course List. (See NOTE on Distribution List.)

**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 (7 CREDITS)**  
Distribution electives must be selected from courses listed under Basic Requirements, Humanities, Social Sciences, or Natural Sciences. Students are advised to take at least one writing intensive course (other than a written communication skills course) as part of their degree requirements and electives. 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.

**Total: 90 credits**

DTA: Direct Transfer Agreement  
See Approved Distribution Course List on page 60.

**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 Option A 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 in Arts Option A 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 forms, available from the Enrollment Services credentials evaluator, Bldg. 7. The Option B applications must be signed by student’s Option B advisors 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. Students’ Option B advisors 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 in Biology

(DTA Transfer Degree)
This TCC degree is designed for students who intend to transfer to Biological Science majors at baccalaureate institutions. Many classes required for this degree are offered only once or twice a year. Students should work closely with faculty advisors to plan their programs of study, including elective courses.

The Associate in Biology degree satisfies General Education requirements of baccalaureate institutions. Students who transfer with the Associate in Biology degree may be required to complete some additional requirements during their junior and senior years as required by individual institutions.

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.
• At least one course 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)
WRITTEN COMMUNICATION SKILLS (10 CREDITS)
» ENGL& 101 ................. English Composition I
» ENGL& 102 ................. Argument and Persuasion

QUANTITATIVE SKILLS (5 CREDITS)
» MATH& 151 ................. Calculus I

Distribution Requirements (60 credits)
HUMANITIES (15 CREDITS)
» Select humanities courses from the Approved Distribution Course List.
» Select courses from at least two different disciplines.
» No more than five Humanities credits of foreign language or performance skills classes can be used to satisfy this requirement.

SOCIAL SCIENCE (15 CREDITS)
» Select social sciences courses from the Approved Distribution Course List.
» Select courses from at least two different disciplines.

NATURAL SCIENCES (30 CREDITS)
» BIOL& 221 ................. Introduction to Evolution, Ecology and Biodiversity
» BIOL& 222 ................. Introduction to Cellular and Molecular Biology
» BIOL& 223 ................. Introduction to the Biology of Organisms
» CHEM& 161 ................. General Chemistry w/Lab I
» CHEM& 162 ................. General Chemistry w/Lab II
» CHEM& 163 ................. General Chemistry w/Lab III

College-Level Electives (15 credits)
» Select remaining college-level courses to reach a total of 90 credits
» Selected courses must include two elective physical education credits
» Select no more than five elective credits from courses that do not appear on the Basic Requirements Distribution List for the Associate in Arts degree or the Approved Distribution Course List.

Total: 90 credits

DTA: Direct Transfer Agreement
See Approved Distribution Course List on page 60.
Associate in Business

(DETA Transfer Degree)

This TCC degree is designed for students who intend to transfer to business schools at baccalaureate institutions. Students who complete the Associate in Business degree are normally granted junior standing upon admission to four-year colleges and universities. Admission to schools of business is highly competitive, and completion of the Associate in Business degree does not guarantee admission.

In addition to the required courses for the Associate 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 in Business degree. Students pursuing this degree are encouraged to work closely with TCC advisors familiar with business transfer requirements.

PROGRAM LEARNING OUTCOMES

Upon successful completion of the Associate 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

• 90 quarter credit hours in courses numbered 100 or above.
• 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 an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

Basic Requirements (20 credits)

WRITTEN COMMUNICATION SKILLS (10 CREDITS)

» ENGL& 101 ................. English Composition I
» ENGL& 102 ................. Argument and Persuasion
or ENGL 103 ............... College Composition: Writing about Literature

QUANTITATIVE SKILLS (10 CREDITS)

» MATH 147 ................... College Algebra for Business and Economics
» MATH& 148 ............. Business Calculus

Distribution Requirements (65 credits)

HUMANITIES (15 CREDITS)

» Select courses from at least two disciplines on the Approved Distribution Course List.
» Select no more than five credits of performance/skills course(s).

SOCIAL SCIENCE (15 CREDITS)

» ECON& 201 ................. Micro Economics
» ECON& 202 ................. Macro Economics
» Select one additional Social Science course in a discipline other than Economics, from the Approved Distribution Course List.

MULTICULTURAL

One of the Humanities or Social Science courses from the above Distribution Areas, or the Elective course selected in the section below, must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List.

NATURAL SCIENCES (10 CREDITS)

» Select two courses from two disciplines on the Approved Distribution Course List.
» At least one course must be a lab science.

STATISTICS (5 CREDITS)

» BUS 256 (preferred) .... Statistical Analysis
or MATH&146 ............. Introduction to Statistics
BUSINESS (20 CREDITS)
» ACCT& 201 .......... Principles of Accounting I
» ACCT& 202 .......... Principles of Accounting II
» ACCT& 203 .......... Principles of Accounting III
» BUS& 201 .......... Business Law

College-Level Electives 5 credits
» Elective courses must be numbered 100 or above.

Total: 90 credits
Associate in Elementary Education

(DTA Transfer Degree)

This TCC degree is directly transferable to most Washington baccalaureate institutions. Students who complete the degree have the minimum preparation for consideration for admission to Washington State’s elementary education teacher preparation programs.

Students who complete the Associate in Elementary Education normally will be granted junior standing upon admission to four-year colleges and universities. However, some baccalaureate institutions and university departments have unique graduation requirements. Some institutions require foreign language for admission, which can be used to satisfy humanities or elective requirements for TCC’s Associate in Elementary Education degree.

Successful completion of courses for this degree does not guarantee admission to a university college of education. Additional criteria, such as grade point average, leadership activities, prior classroom experience, and community service, such as volunteer tutoring may also be used in making admission decisions.

PROGRAM LEARNING OUTCOMES:

Upon completion of the Associate in Elementary Education degree, students will be able to:

• Evaluate personal strengths and weaknesses and analyze the implications these have on becoming a professional educator.
• Research and document current trends and issues in education for use in upper division critical thinking and collaborative problem solving.
• Document, analyze, and participate professionally in field experiences in fulfillment of transfer requirements.
• Recognize and explain appropriate terminology, educational strategies, and Common Core State Standards (CCSS) requirements to create learning environments that address student’s diverse needs.

DEGREE COMPLETION REQUIREMENTS:

• 90 quarter credit hours in courses numbered 100 or above.
• 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.

Basic Requirements (20 credits)

WRITTEN COMMUNICATION SKILLS (10 CREDITS)

» ENGL& 101 ............... English Composition I
» ENGL& 102 ............... Argument and Persuasion
  or ENGL 103 ............... College Composition: Writing about Literature

QUANTITATIVE SKILLS (10 CREDITS)

» MATH& 131 ................ Math for Elementary Education I
» MATH& 132 ................ Math for Elementary Education II

Distribution Requirements (50 credits)

HUMANITIES (15 CREDITS)

» CMST& 220 ............... Public Speaking
» MUSC 120 ............... Music in the Classroom
  or MUSC 100 ............... Fundamentals of Music
  or MUSC& 105 ............ Music Appreciation
» ART 180 ................. Art for Elementary Education
  or ART& 100 ............ Art Appreciation
SOCIAL SCIENCES (20 CREDITS)
Required (15 credits):
» EDUC& 205 ................ Intro. to Education (w/field experience)
» Select U.S. History
» Select World Civilization or non-Western History
Recommended (5 credits):
» Economics, Geography, Political Science, Psychology, Sociology or additional History.
» Note: WSU, CWU and SM require: PSYC& 200 Lifespan Psychology

NATURAL SCIENCES (15 CREDITS)
» Select Biology
» Select Oceanography, GEOG 205, or GEOG 210
» Select Chemistry or Physics
» Courses must include two laboratory sciences

Additional Requirements (20 credits)
MULTICULTURAL (5 CREDITS)
» EDUC 220 ................... Diversity in Education
  or SOC 262, ANTH& 206

PHYSICAL EDUCATION (3 CREDITS)
» PE 295 ....................... PE for Elementary Teachers
  or 3 PE activity credits

ELECTIVES (12 CREDITS)
Select additional content courses, such as, social sciences, humanities, sciences, or mathematics, in order to meet endorsement competencies and/or satisfy requirements for academic majors. Recommended: ENGL 280 Children’s Literature

Total: 90 credits

DTA: Direct Transfer Agreement
See Approved Distribution Course List on page 60.
Associate in Pre-Nursing

(DTA Transfer Degree)

TCC's Associate Degree in Pre-Nursing is a two-year program designed for students who plan to transfer to a Bachelor of Science in Nursing program (BSN) at a four-year 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 are highly competitive, and 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 directly after completing their associate degree should talk with an advisor about an Associate of Applied Science Degree in Nursing. Participating 4-year universities include: UW SEattle, WSU, Northwest University, Seattle University, SPU, PLU, Walla Wall University, and the WSU Intercollegiate College of Nursing (WSU-ICN) whose members include EWU and Whitworth College.

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 REQUIREMENTS:

- 90 quarter credit hours in courses numbered 100 or above.
- 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.

Core Requirements (15 credits)

WRITTEN COMMUNICATION SKILLS (10 CREDITS)

» ENGL& 101 ................. English Composition I
» ENGL& 102 ................. Argument and Persuasion
   or ENGL 103 ............... College Composition: Writing about Literature

QUANTITATIVE SKILLS (5 CREDITS)

» MATH& 146 ................. Introduction to Statistics

Distribution Requirements (75 credits)

HUMANITIES (15 CREDITS)

» CMST& 220 ................. Public Speaking
» Select two additional courses from the Humanities section from the Approved Distribution Course List.
   At least one course must be selected from a discipline other than Communication Studies (CMST).
» No more than five credits of studio/performance/skills courses and no more than five foreign language credits can be applied.

SOCIAL SCIENCES (15 CREDITS)

» PSYC& 100 ................. General Psychology
» PSYC& 200 ................. Lifespan Psychology
» SOC& 101 ................. Introduction to Sociology
NATURAL SCIENCES (35 CREDITS)
» BIOL& 160 .................. General Cell Biology
» CHEM& 121 ................. Introduction to Inorganic Chemistry
» CHEM& 131 ................. Introduction to Organic Biochemistry
» NUTR& 101 ................. Human Nutrition
» BIOL& 241 .................. Human Anatomy and Physiology 1
» BIOL& 242 .................. Human Anatomy and Physiology 2
» BIOL& 260 .................. General Microbiology

ADDITIONAL REQUIREMENTS (10 CREDITS)
» PE 100 (2 credits) ....... Total Fitness
» PE Activity (1 credit)
» Electives (5 credits)

**Total: 88 credits**

DTA: Direct Transfer Agreement
See Approved Distribution Course List on page 60.
Associate in Science

(AS-T Transfer Degree)

This TCC degree is designed for students who plan to transfer to specific science majors at four-year colleges or universities. Students pursuing this degree are required to select a field of specialization from the approved list and will be assigned TCC advisors who understand the specialization requirements.

Many classes required for the Associate in 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 native students who begin science studies at four-year colleges and universities 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.

DEGREE COMPLETION REQUIREMENTS:

- Minimum of 90 quarter credit hours in courses numbered 100 or above.
- 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 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)

WRITTEN COMMUNICATIONS SKILLS (5 CREDITS)

» ENGL& 101 .................. English Composition I

QUANTITATIVE SKILLS (10 CREDITS)

» MATH& 151 ................. Calculus I
» MATH& 152 ................. Calculus II
   or above, with advisor approval

Humanities & Social Sciences Distribution Requirements (15 credits)

» 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.

At least one of the courses selected above for Humanities or Social Science must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

Specialization Courses (40–75 credits)

Select a set of courses, approved by the department, the science division, and the registrar, that meet your specialization requirements. See the details of approved specializations.

College-level Elective Courses (0–30 credits)

» Select remaining college level courses to reach a total of 90 credits. The number of credits in this category depends on the number of credits in your specialization courses.
» Select no more than five credits in this category from courses that do not appear on the Basic Requirements for the Associate in Arts degree or the Approved Distribution Course List.
» PE activity courses cannot be used as electives.
» Specializations approved at the time of printing are published below.

Total: 90-110 credits

See Approved Distribution Course List on page 60.
Specialization Courses

Biology
The following course set fulfills the Specialization Requirement of the Associate of Science degree and is appropriate for students studying biological sciences, including biology, botany, microbiology, molecular biology, and zoology.

SPECIALIZATION COURSES (50 CREDITS)
- BIOL& 221, 222, 223 (15 credits).
- CHEM& 161, 162, 163, 261, 262, 263 (30 credits).
- MATH& 153 or MATH& 146 (5 credits).
- Select 10 credits in Section 4 (Electives) to reach a total of 90 credits. PHYS& 114, 115 or PHYS& 221, 222 are strongly recommended as elective courses.

Chemistry
The following course set fulfills the Specialization Requirement of the Associate of Science degree and is appropriate for students studying chemistry.

SPECIALIZATION COURSES (53 CREDITS)
- CHEM& 161, 162, 163 (30 credits).
- MATH& 153 (5 credits).
- PHYS& 221, 222, 223 (18 credits).
- Select 7 credits in Section 4 (Electives) to reach a total of 90 credits.

Computer Science
The following course set fulfills the Specialization Requirement of the Associate of Science degree and is appropriate for students studying computer science.

SPECIALIZATION COURSES (48 CREDITS)
- CS 142, 143 (10 credits).
- PHYS& 221, 222, 223 (18 credits).
- MATH& 153, 220 and one of the following: MATH 238, MATH& 254 (15 credits).
- Science course approved by a computer science advisor (5 credits).
- Select 12 elective credits to reach a total of 90 credits. MATH& 146 and MATH 238 are highly recommended elective courses.

Earth Sciences
The following course set fulfills the Specialization Requirement of the Associate of Science degree and is appropriate for students studying earth sciences such as geology.

SPECIALIZATION COURSES (43 CREDITS)
- MATH& 153 (5 credits).
- CHEM& 161, 162, 163 (15 credits).
- PHYS& 221, 222, 223 (18 credits).
- GEOL& 101 (5 credits).
- Select 17 elective credits to reach a total of 90 credits. GEOG/ENVS 210 is recommended.

Engineering*
ENGR& 104 (5 credits) is highly recommended for this specialization and partially satisfies the Social Science degree requirement. In addition, the following course set fulfills the Specialization Requirement of the Associate of Science MRP degree and is appropriate for students studying engineering.

SPECIALIZATION COURSES (63 CREDITS MINIMUM)
- CS 142 (5 credits).
- PHYS& 221, 222, 223 (18 credits).
- MATH& 153, MATH 220, 238 (15 credits).
- CHEM& 161, 162 (10 credits).
- This specialization requires 15 credits from the following list. Selection depends on the intended engineering major. These 15 credits must be approved by an engineering advisor.
  - ENGR& 114, 214, 215, 224, 225
  - ENGL& 235
  - CHEM& 163, 261, 262
  - BIOL& 221, 222, 223 (Bioengineering only)
  - MATH& 254 (required for UW transfers)
- This specialization allows for no elective credits.

* The engineering specialization requires 63 credits. However, in some cases this will not satisfy entry requirements for specific baccalaureate engineering departments. Most students are advised to complete one of the specialized engineering Associate of Science degrees, rather than this general engineering Associate of Science degree.

Environmental Sciences
The following course set fulfills the Specialization Requirement of the Associate of Science degree and is appropriate for students studying environmental science.

SPECIALIZATION COURSES (46 CREDITS)
- CHEM& 161, 162, 163 (15 credits).
- BIOL& 221, 222, 223 (15 credits).
- MATH& 146 or BUS 256 (5 credits).
- PHYS& 114 (6 credits).
- GEOL& 101 (5 credits).
- Select 14 credits in Section 4 (Electives) to reach a total of 90 credits. Selection from the following courses is strongly recommended:
  - GEOL 179 or OCEA 179 or ENVS 179 (3 credits)
  - ENVS 210 or GEOG 210 (5 credits)
  - Humanities or Social Science (5 credits)

Physics
The following course set fulfills the Specialization Requirement of the Associate of Science degree and is appropriate for students studying physics.

SPECIALIZATION COURSES (53 CREDITS)
- PHYS& 221, 222, 223 (18 credits).
- MATH& 153, MATH 220, 238, MATH& 254 (20 credits).
- CHEM& 161, 162 (10 credits).
- CS 142 (5 credits).
- Select seven credits in Section 4 (Electives) to reach a total of 90 credits. ENGR& 104 is highly recommended to satisfy the Social Sciences degree requirement or as an elective.
Associate of Science in Bioengineering and Chemical Engineering

(MRP AS Transfer Degree)
TCC’s AS-T in Bioengineering and Chemical Engineering is a state recognized Major Ready Pathway (MRP) designed for students who plan to transfer to a Bachelor of Science degree program in one of the engineering disciplines listed. 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. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met.

PROGRAM LEARNING OUTCOMES
Upon successful completion of any Associate of Science Degree Engineering specialization, students will:

- Apply knowledge of mathematics and science to engineering related problems. (COK, CRT)
- Design a system, component, program or process to meet desired needs. (COK, COM, CRT, IIT, LWC, RES)
- Conduct scientific experiments, analyze and interpret the resulting data. (COK, CRT)
- Communicate design ideas, solutions to engineering related problems or results of scientific experiments effectively, using both English and mathematical languages. (COK, COM, CRT, IIT)
- Function effectively on a team to produce a cohesive and professional work product. (COK, COM, CRT, IIT, LWC, RES)

DEGREE COMPLETION REQUIREMENTS

- 98 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).
- 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.

Basic Requirements (15 credits)
- ENGL& 101
- MATH& 151, 152

Humanities and Social Sciences (15 credits)
- Humanities course from approved distribution list
- Social Science course from approved distribution list - ENGR& 104* 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, MATH 238
- PHYS& 221, 222, 223
- CHEM& 161, 162, 163, 261

Additional Specialization Courses (20 credits)
Select 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).
- BIOL& 222, 223
- CS 142
- CHEM& 262
- MATH& 254, MATH 220
- ENGR& 104*, 204, 224, 240
- ENGL& 235

*ENGR& 104 may be taken either to meet Social Science distribution requirement or to meet additional specialization course requirements, but not both.

Note: Most classes on this list have prerequisites. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.

MRP: Major Ready Pathway
See Approved Distribution Course List on page 60.
Associate of Science in Electrical and Computer Engineering

(MRP AS Transfer Degree)

TCC’s AS-T in Electrical and Computer Engineering is a state recognized Major Ready Pathway (MRP) designed for students who plan to transfer to a Bachelor of Science degree program in one of the engineering disciplines listed. 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. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met.

PROGRAM LEARNING OUTCOMES

Upon successful completion of any Associate of Science Degree Engineering specialization, students will:

- Apply knowledge of mathematics and science to engineering related problems. (COK, CRT)
- Design a system, component, program or process to meet desired needs. (COK, COM, CRT, IIT, LWC, RES)
- Conduct scientific experiments, analyze and interpret the resulting data. (COK, CRT)
- Communicate design ideas, solutions to engineering related problems or results of scientific experiments effectively, using both English and mathematical languages. (COK, COM, CRT, IIT)
- Function effectively on a team to produce a cohesive and professional work product. (COK, COM, CRT, IIT, LWC, RES)

DEGREE COMPLETION REQUIREMENTS

- 103 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 103).
- 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.

Basic Requirements (15 credits)

- ENGL& 101
- MATH& 151, 152

Humanities and Social Sciences (15 credits)

- Humanities course from approved distribution list - ENGR& 114* recommended.
- Social Science course from approved distribution list - ENGR& 104* 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, MATH 220, 238
- CS 142
- PHYS& 221, 222, 223
- CHEM& 161
- ENGR& 204

Additional Specialization Courses (25 credits)

Select four of the following classes as appropriate for intended major and bachelor’s institution.

- BIOL& 222
- CS 143
- CHEM& 162
- MATH& 254
- ENGR& 104*, 214, 215, 224, 240
- ENGL& 235

*ENGR& 104 may be taken either to meet Social Science requirement or to meet additional specialization course requirement, but not both.

Note: Most classes on this list have prerequisites. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.

MRP: Major Ready Pathway
See Approved Distribution Course List on page 60.
Associate of Science in Mechanical, Civil, Aeronautical, Industrial and Material Science Engineering

(MRP AS-Transfer Degree)

TCC’s AS-T in Mechanical, Civil, Aeronautical, and Material Science Engineering is a state recognized Major Ready Pathway (MRP) designed for students who plan to transfer to a Bachelor of Science degree in one of the engineering disciplines listed. 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. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met.

PROGRAM LEARNING OUTCOMES

Upon successful completion of any Associate of Science Degree Engineering specialization, students will:

- Apply knowledge of mathematics and science to engineering related problems. (COK, CRT)
- Design a system, component, program or process to meet desired needs. (COK, COM, CRT, IIT, LWC, RES)
- Conduct scientific experiments, analyze and interpret the resulting data. (COK, CRT)
- Communicate design ideas, solutions to engineering related problems or results of scientific experiments effectively, using both English and mathematical languages. (COK, COM, CRT, IIT)
- Function effectively on a team to produce a cohesive and professional work product. (COK, COM, CRT, IIT, LWC, RES)

DEGREE COMPLETION REQUIREMENTS

- 108 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).
- At least 30 applicable credits must be earned at Tacoma Community College.
- 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.

Basic Requirements (15 credits)

- ENGL& 101
- MATH& 151, 152

Humanities and Social Sciences (15 credits)

- Humanities course from approved distribution list - ENGR& 114* recommended.
- Social Science course from approved distribution list - ENGR& 104* 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, MATH 220, 238
- PHYS& 221, 222, 223
- CHEM& 161, 162
- ENGR& 214, 215, 216

Additional Specialization Courses (20 credits)

Select four of the following classes as appropriate for intended major and bachelor’s institution.

- CS 142
- MATH& 254
- ENGR& 104*, 114*, 204, 224, 240
- ENGL& 235

*ENGR& 104 and 114 may be taken either to meet Social Sciences and Humanities distribution requirements or to meet additional specialization course requirements, but not both.

Note: Most classes on this list have prerequisites. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.

MRP: Major Related Program

See Approved Distribution Course List on page 60.
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 in Arts and Sciences 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.
- At least 30 applicable credits must be earned at Tacoma Community College.
- Ninety (90) quarter hour credits must be completed, 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
- and one of the following:
  - ENGL& 102 ................. Argument and Persuasion
  - ENGL 103 .................... College Composition: Writing about Literature
  - CMST& 101 ................. Introduction to Communication
  - CMST 110 .................... Multicultural Communication
  - CMST& 220 ................. Public Speaking

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)
  - 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.

This list applies to TCC’s Associate in Arts and Sciences, Associate in Business, Associate in Elementary Education, Associate in Pre-Nursing, Associate in Biology, 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. Typical performance/skills courses include: studio art, music ensembles and creative writing courses.

**Humanities**

<table>
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<td>ART&amp; 100</td>
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<td>ART 102</td>
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<td>ART 103</td>
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<td>ART 105</td>
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<td>ART 106</td>
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<td>ART 147</td>
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<td>ART 231</td>
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<td>ART 232</td>
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<td>ART 247</td>
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<td>CMST 110</td>
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</table>
MUSC 152 TCC Voices I (P/S)  ECON& 201 Micro Economics
MUSC 155 Gospel Choir (P/S)  ECON& 202 Macro Economics
MUSC 160 Orchestra I (P/S)  EDUC 220 Diversity in Education
MUSC 161 Symphonic Band (P/S)  ENGR& 104 Introduction to Engineering and Design
MUSC 165 Jazz Band (P/S)  GEOG 110 Geography of the Pacific Rim
MUSC 179 Special Topics in Music  HIST& 126 World Civilizations I
MUSC 230 Private Vocal or Instrumental Instruction  HIST& 127 World Civilizations II
MUSC 251 TCC Singers II (P/S)  HIST& 128 World Civilizations III
MUSC 252 TCC Voices II (P/S)  HIST& 146 U.S. History I
MUSC 260 Orchestra II (P/S)  HIST& 147 U.S. History II
PHIL& 101 Introduction to Philosophy  HIST& 148 U.S. History III
PHIL 105+ Introduction to Critical Thinking  HIST 210 History of Modern Europe
PHIL 190+ World Philosophy  HIST 211 History of China
PHIL 215+ Introduction to Ethics  HIST& 214 Pacific Northwest History
PHIL 230+ Contemporary Philosophy  HIST& 219 Native American History
PHIL 260+ Philosophy of Science  HIST& 220 African-American History
PHIL 267+ Problems in Philosophy of Religion  HIST 230 History of Japan
PHIL 270+ Great Thinkers of the Western World  HIST 231 American History, American Film
PHIL 290+ Political Philosophy and Ideology  HIST 240 Religion in America and the Modern World
(P/S) = Performance/Skills courses. No more than five credits of Performance/Skills courses may be used to satisfy the Humanities distribution requirement.

+ Courses no longer offered at TCC.

WORLD LANGUAGES (DISCIPLINE):
ARAB 121, 122, 123 Arabic 1, 2, 3
CHIN& 121, 122, 123 Chinese 1, 2, 3
FRCH& 121, 122, 123 French 1, 2, 3
GERM& 121, 122, 123 German 1, 2, 3
JAPN& 121, 122, 123 Japanese 1, 2, 3
SPAN& 121, 122, 123 Spanish 1, 2, 3

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 220 Ethnographies of American Cultures
ANTH& 237 Human Osteology
ANTH& 245 Primatology
BUS& 101 Introduction to Business
BUS 150 Global Business
BUS& 201 Business Law

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Natural Sciences

ANTH& 205 Biological Anthropology (non-lab)
ANTH 237 Human Osteology (non-lab)
ANTH& 245 Primatology (non-lab)
ASTR& 101 Introduction to Astronomy (lab)
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
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& 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)
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)
HIT 160 Pathophysiology
NUTR 101 Human Nutrition
OCEA& 101 Introduction to Oceanography (lab)
OCEA 179 Special Topics in Oceanography
PHYS& 114 General Physics (lab)
PHYS& 115 General Physics (lab)
PHYS& 116 General Physics (lab)
PHYS& 221 Engineering Physics (lab)
PHYS& 222 Engineering Physics (lab)
PHYS& 223 Engineering Physics (lab)
SCI 105 Introductory Topics in Natural Science (lab)
SCI 110 Physical Science & Technology (lab)

Physical Education

PE All PE courses count toward the PE distribution credits
EXCEPT: PE 190, PE 191, PE 285, and PE 292

Multicultural

ANTH& 100 Survey of Anthropology
ANTH& 206 Cultural Anthropology
ANTH& 207 Linguistic Anthropology
ANTH& 210 Indians of North America
ANTH 220 Ethnographies of American Culture
ART& 100 Art Appreciation
BUS 150 Global Business
CMST 110 Multicultural Communications
EDUC 220 Diversity in Education
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 265 English Literature From Donne Through Blake
ENGL 271 Contemporary American Fiction
ENGL 280 Literatures of Diversity
HIST& 126 World Civilization I
HIST& 127 World Civilization II
HIST& 128 World Civilization 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 and the Modern World
<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>HUM&amp; 101</td>
<td>Introduction to Humanities</td>
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<td>HUM 110</td>
<td>Introduction to Pacific Rim Cultures</td>
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<td>HUM&amp; 116</td>
<td>Introduction to Humanities I</td>
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<tr>
<td>HUM&amp; 117</td>
<td>Introduction to Humanities II</td>
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<td>HUM&amp; 118</td>
<td>Introduction to Humanities III</td>
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<td>HUM 120</td>
<td>The American Multicultural Arts Experience</td>
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<td>MUSC 106</td>
<td>World Music</td>
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<tr>
<td>MUSC 155</td>
<td>Gospel Choir</td>
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<tr>
<td>PSYC&amp; 200</td>
<td>Lifespan Psychology</td>
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<tr>
<td>SOC&amp; 101</td>
<td>Introduction to Sociology</td>
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<tr>
<td>SOC 120</td>
<td>Introduction to Women's Studies</td>
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<tr>
<td>SOC&amp; 201</td>
<td>Social Problems</td>
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<td>SOC 205</td>
<td>Sociology of African Americans</td>
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<td>SOC 222</td>
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<td>SOC 238</td>
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<td>SOC 262</td>
<td>Race and Ethnic Relations</td>
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<td>SOC 265</td>
<td>Sociology of Asian Americans</td>
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<td>Arabic 1, 2, 3</td>
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<td>CHIN&amp; 121, 122, 123</td>
<td>Chinese 1, 2, 3</td>
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<td>FRCH&amp; 121, 122, 123</td>
<td>French 1, 2, 3</td>
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<td>GERM&amp; 121, 122, 123</td>
<td>German 1, 2, 3</td>
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<tr>
<td>JAPN&amp; 121, 122, 123</td>
<td>Japanese 1, 2, 3</td>
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<tr>
<td>SPAN&amp; 121, 122, 123</td>
<td>Spanish 1, 2, 3</td>
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</tbody>
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**Non-distribution Multicultural Courses**

The following courses do not satisfy distribution requirements. If one of the following courses is selected to satisfy the multicultural requirement, distribution electives must be increased by the same number of credits to assure that a minimum of 60 distribution credits are completed.

- ECE 130 Individual and Cultural Diversity
- HD 110 Human Relations
- HSP 126 Cultural Competencies for Human Services

**Writing Intensive**

Recommended for some transfer students.

- BUS 150 Global Business
- ENGL& 220 Introduction to Shakespeare
- 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 264 English Literature:
  - From Beowulf through Shakespeare
- ENGL 265 English Literature: From Donne through Blake
- ENGL 271 Contemporary American Fiction
- ENGL 276 Creative Writing – Fiction
- ENGL 278 Creative Writing – Poetry
- ENGL 279 Creative Writing-Poetry Workshop
- ENGL 280 Literatures of Diversity
- HUM& 101 Introduction to Humanities
- HUM& 116 Introduction to Humanities I
- HUM& 117 Introduction to Humanities II
- HUM& 118 Introduction to Humanities III
- PSYC 209 Fundamentals of Psychological Research

**COMMON COURSE NUMBERING**

The Washington Community and Technical College system has adopted common course numbers, prefixes and titles for courses that are equivalent at many two-year colleges. These changes went into effect summer quarter 2008. The courses and their descriptions have not changed, just the course numbers and, in some cases, the course prefixes and/or titles. The changes apply to both common courses and non-common courses. Common courses are identified by an “&” character at the end of the prefix, for example ENGL& or ANTH&.
Distinction Pathways

American Ethnic and Gender Studies Certificate

AEGS Coordinator:
Andrew Cho, Ph.D.
253.566.5355 acho@tacomacc.edu

TCC’s American Ethnic and Gender Studies (AEGS) certificate 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 is also available to community members interested in ethnicity and gender.

CERTIFICATE REQUIREMENT

Students who successfully complete 15 credits of coursework in American Ethnic and Gender Studies may apply to receive certificates in American Ethnic and Gender Studies, which is noted on their transcripts. Courses used to satisfy the requirements of the AEGS certificate 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 class schedule for course availability.

Sustainability Distinction Pathway

Joe Shannon, Dean
Math, Science & Engineering
253.566.5015 jshannon@tacomacc.edu

Sustainability is the ability to meet the current human need for natural resources without compromising the ability of future generations to meet their needs. Sustainability issues fall into three main categories: environmental, social, and economic.

The SDP will allow students to explore the topic of sustainability as they pursue their regular course of study at TCC. The SDP will provide 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.

The approved course pool contains two tiers of classes.

• In tier 1, the major focus of the course is sustainability, with roughly 50 percent of more of the course outcomes addressing sustainability topics explicitly.
• In tier 2 classes the instructor explores sustainability in a more limited way, with a minimum of one course outcome addressing sustainability.
• Students will be 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.
Bachelor of Applied Science in Health Information Management

The Applied Baccalaureate (BAS) is a two year baccalaureate completion program for students with associate degrees in specific fields. A BAS emphasizes upper division knowledge and skills applied to specific contexts, such as the health field. The credential met by TCC’s BAS degree is expected enhance employment and advancement in an evolving field filling a critical access and affordability need for TCC’s service area and the state of Washington.

PROGRAM OUTCOMES
- Evaluate and implement policies and procedures surrounding Information Governance, to include classification systems, health record content and documentation, data governance, data management, and secondary data sources.
- Assess, implement, and improve systems to ensure the protection of health information, to include health law, data privacy, confidentiality and security, and the release of information.
- Analyze and interpret data and implement technology used in informatics, to include health information technologies, information management strategic planning, analytics and decision support, health care statistics, research methods, consumer informatics, health information exchange, and information integrity and data quality.
- Apply the principles of revenue management and implement processes for management and reporting of the revenue cycle.
- Interpret policies and construct procedures for compliance of healthcare regulatory requirements, to include medical coding, fraud surveillance, and clinical documentation improvement.
- Evaluate leadership models, theories, and skills required for successful leadership to include the areas of change management, work design and process improvement, human resource management, training and development, strategic and organizational management, financial management, project management, vendor/contract management, enterprise information management, all of which comply with the ethical standards of practice.

This 90-credit applied baccalaureate degree in Health Information Management brings together theory and practice and prepares graduates to work effectively in the increasingly integrated and technologically complex Health Information Management career field.

This degree is appropriate for Tacoma Community College graduates of the two-year CAHIM accredited Health Information Technology (HIT) program who have successfully obtained their Registered Health Information Technician (RHIT) credential; transfer students from Washington community and technical colleges who have CAHIM accredited HIT associate degrees and who have successfully obtained their RHIT credential; and current working professionals who hold their RHIT credential.

PRE-REQUISITE REQUIREMENTS
- Must hold a current RHIT credential and
- MATH 136 ................... Inferential Statistics (5)
  or MATH& 146 ........... Introduction to Statistics (5)

100-200 Level General Education Requirements
- Additional Credits in Humanities Distribution 100-200 Level (5)
- Additional Credits in Social Science Distribution at 100-200 Level (5)
- Additional Credits in General Electives at 100-200 Level (15)

BAS Level General Education Requirements
- ENGL 301 .................... Professional Writing and Communication in Healthcare (5)
- PSYC 301 .................... Fundamentals of Research for Healthcare (5)
- PHIL 401 ..................... Biomedical Ethics (5)
- LS 301 ......................... Research Skills for Healthcare (2)

HIM BAS Core Requirements
- HIM 310 ................. Data Governance (5)
- HIM 320 ............... Healthcare Privacy, Confidentiality, and Security (3)
- HIM 330 .................. Revenue Cycle Management (5)
- HIM 340 ................ Data Quality Management & Performance Improvement (5)
- HIM 350 ................. Health Information Systems Analysis and Design (5)
- HIM 410 ................ Healthcare Compliance (5)
- HIM 420 ................ Human Resource Management and Leadership (5)
- HIM 430 ............... Data Analytics (5)
- HIM 440 ................ Organizational Management in Healthcare (3)
- HIM 450 ................ HIM Professional Practice Experience (3)
- HIM 455 ................ HIM Capstone (2)