Computer Information Technology

Lane Community College

Proposed Degree

beginning 2015-16

ASSOCIATE OF SCIENCE

OREGON TRANSFER:

COMPUTER SCIENCE (AS/OT-CS)

The AS/OT-CS (Associate of Science Oregon Transfer- Computer Science) degree was created in 2013 / 2014 through collaboration between members of Oregon Council of Computer Chairs (OCCC) which includes Oregon community college faculty and administration, and Oregon public university computer science chairs and faculty. It was adopted by Joint Boards Articulation Commission November 2014 and Approved Higher Education Coordinating Commission December 2014.

The Associate of Science-Oregon Transfer in Computer Science (AS/OT-CS) degree has computer science-focused lower division general education requirements accepted by any institution in the Oregon University System (OUS), and electives tailored for requirements at each intended transfer institution.

Any student who holds an Oregon community college Associate of Science/Oregon Transfer degree in Computer Science (AS/OT-CS) that conforms to the guidelines set forth below, and who transfers to one of the Oregon public universities, will have met the lower division general education requirements of baccalaureate degree programs of any Oregon public university institution.

GPA and course requirements for entry into the major are not necessarily satisfied by the AS/OT-CS degree. Once admitted to the university and computer science program, students transferring under this agreement will have junior standing for both the computer science major and university registration purposes. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an AS/OT-CS degree. Junior standing is for registration purposes only. Program admission is a separate process. Students and advisors should be aware of the opportunities created by the AS/OT-CS, but should also be mindful of its limitations, as summarized in the explanatory notes that follow the description of the degree itself.

**Guidelines**

A student must complete a total of 90 quarter credits or more to be awarded the AS/OT-CS.

All courses should be aligned with the student's intended program of study and the degree requirements of the baccalaureate institution and program to which the student plans to transfer. A student is encouraged to work with an advisor in the selection of elective courses within the AS/OTCS degree for alignment to the institution the student intends to transfer.

All Foundational Requirements and Discipline Studies courses must be a minimum of 3 credits, except for Health/Wellness/Fitness courses, which may be any number of credits. All Elective courses may be any number of credits. All courses must be passed with a grade of "C" or better. Students must have a minimum cumulative GPA of 2.0 at the time the AS/OTCS is awarded. (note: many CS programs have competitive admission, minimum GPA and grades will not generally be high enough to gain admission to competitive programs)

**I. Foundational Requirements**

**Writing**

Students taking writing courses of three credits each must take WR121, WR122, and

WR227. Students taking writing classes of four credits each must take WR121 and either WR122 or WR227. Information Literacy will be included in the writing requirement. *(Note: WR227 will meet* *additional requirements at some CS baccalaureate programs)*

**Oral Communication**

One course in the fundamentals of speech or communication designated by the college as meeting the statewide criteria for speech communication.

**Mathematics**

Must include at minimum Mth251 Differential Calculus and Mth252 Integral Calculus.

**Health/Wellness/Fitness**

One or more courses totaling at least three credits.

**II. Discipline Studies**

**Arts and Letters**

Three courses chosen from two or more disciplines.

**Social Sciences**

Four courses chosen from two or more disciplines.

**Science/Math/Computer Science**

Four courses from at least two disciplines including at least three laboratory courses in biological and/or physical science from approved courses for Oregon Transfer Programs (page 37) *(1. see program specific requirements as* *some programs require physics; 2. note that the CS and Math core required courses will meet the* *requirement for 1 of the 4 required courses, so normally only 3 science courses outside of CS/Math* *are needed)*

**Cultural Literacy**

Students must select one course from any of the discipline studies that is

designated as meeting the statewide criteria for cultural literacy.

**Computer Science Specific Requirements**

A minimum of sixteen credits in Computer science consisting of the following courses:

Each course in this section must be completed with a grade of "C" or better (note: many CS programs have competitive admission, minimum GPA and grades will not generally be high enough to gain admission to competitive programs).

Required courses are:

* CS 160: Introduction to Computer Science
* CS 161: Computer Science 1
* CS 162: Computer Science 2
* CS 260: Data Structures

**Electives**

Complete additional courses to bring the total number of credits to at least 90; varies depending on the student's selection of courses to meet the requirements above. Please carefully plan this in consultation with university specific CS program requirements. A current guide for university specific, lower division CS requirements is maintained at http://occcwiki.org or consult with an advisor from the target university program. Lower division courses taken at the community college may not meet the requirements of an upper division course with a similar title and content offered by an Oregon public university Computer Science program. In such cases, the courses in question will normally transfer as electives. The AS/OT-CS degree may include up to 12 approved professional /technical credits as electives.

**Notes & Clarifications**

[The following notes are not intended to be part of the "Guidelines" (above) but, rather, serve to clarify them .]

1. Choose courses numbered 100 or higher. Although they are important in terms of preparation, courses that are developmental in nature are designed to prepare students for college level work and are not counted in the 90 quarter hours required for the AS/OT-CS. Course numbers 001-099 identify these courses(e.g., RD 090 or WR 080). Additionally, the following courses are considered developmental: ENG 110, 116, 117; MTH 100; RD 115; WR 110, 115 (taken before summer 1999) or 120.
2. However, it is recommended that students and advisors note that grades earned in developmental courses will likely count in the cumulative grade point average (GPA) at the community college. It is also advised to work early with the receiving 4year institution and determine what policy/practice is in place in calculating cumulative GPA upon transfer (since developmental courses will not transfer).
3. The "Foundational Requirements" above represent minimal skill competencies. As such, they may be open to demonstration of competency.
4. For information on waiver testing or credit for prior learning, contact a counselor or advisor. Waiver testing is not the same as placement testing.
5. The second year of a foreign language, but not the first year, may be included among courses that count toward the Arts and Letters requirement. American Sign Language (ASL) is considered a foreign language.
6. WR 115 may be included in the AS/OTCS degree as an elective providing that the WR 115 course at the community college has been approved by the Department of Community Colleges and Workforce Development as meeting statewide learning outcomes for the course.
7. The principal advantage of the AS/OTCS is that it fulfills the lower division (freshman / sophomore) General Education requirements for baccalaureate degrees at all Oregon public university institutions. It does not necessarily meet all of the degree requirements that an Oregon public university institution might have beyond the requirements for majors. The AS/OT-CS guarantees that all General Education credits that a student earned will be accepted as the General Education requirements at the receiving institution.
8. Students may also be able to use AS/OT-CS general education courses to meet certain lower-division requirements in their intended major. Students who intend to major in Computer Science and also wish to maximize the amount of AS/OT-CS coursework that will count toward graduation, should work closely with an academic adviser and make use of the ATLAS system when designing their AS/OTCS degrees.
9. Because the amount of coursework required for an AS/OT-CS degree corresponds to two academic years, degree recipients are considered juniors for purposes of registration at an Oregon University System institution. Students should keep in mind, however, that the AS/OTCS does not guarantee that two additional years will suffice to earn a baccalaureate degree. That is because the AS/OTCS does not give students junior standing for program admission purposes in their majors. Neither does it guarantee entrance into a competitive major; minimum GPA and grades will not generally be high enough to gain admission to competitive programs. Students may need to take additional introductory work to prepare for certain majors and should check with an advisor regarding availability at their local community colleges.
10. Students and academic advisers should recognize that although the AS/OT-CS provides an excellent structure for many students intending on pursuing a computer science four year degree, it is not ideal for everyone. Students should consult closely with a computer science advisor at both their community college and the four year transfer institution.
11. All courses must be passed with a C or better. If a course is taken as a P/NP and the student receives a "Pass" ("P"), it is considered equivalent to a C or better at all Oregon community colleges. However, it is recommended that students take courses for a letter grade and not P/NP.
12. For purposes of the Oregon AS/OT-CS degree, no student with a disability shall be denied the degree or the benefits flowing there with respect to admission and matriculation at a state university because the student has been granted an academic adjustment or program modification in any course required for the AS/OTCS degree. This provision includes course substitutions when granted as a disability accommodation in the manner prescribed by the student's community college. This provision may not necessarily apply to major specific course requirements or prerequisites. Oregon Community Colleges will consider a course substitution request on a case-by-case basis, based on the student’s disability as determined by documentation as long as there is no substantial change to the course learning outcomes. Before considering a course substitution, assistive technology, tutoring, or other reasonable accommodations will be considered in an effort to enable the student to succeed in standard course work. However, nothing in these guidelines should be interpreted as requiring the student to attempt and fail a standard course, including one made more accessible through reasonable accommodation, before consideration will be given to a request for course substitution. A course substitution will not automatically be made simply because the student has documentation of a disability impacting a particular area of academics. Requesting a course substitution should follow the process listed below.  
    1. The student must request a disability-related course substitution through the designated Disability Services representative and provide appropriate documentation.
    2. The Disability Services Office will contact the vice president or college designee to determine whether the substitution course would result in a substantial change in the course learning outcomes.
    3. If the substitution would result in a substantial change in the course learning outcomes, the substitution will be denied. If the substitution does not result in a substantial change in the course learning outcomes it will be approved.

**Computer Science transfer specific notes:**

1. *Computer Science, Pro School/Program Admission:* Admission to Computer Science or Professional school/program of any Oregon public university institution is not guaranteed upon completion of the Associate of Science/Oregon Transfer in Computer Science (AS/OTCS) degree. It is strongly recommended that students contact the specific Oregon public university campus’ Computer Science school/program early in the first year of their AS/OTCS program to be advised about additional requirements and procedures for admission consideration to the Oregon public university institution and the Computer Science school/program.