

PROGRAM PLANNING GUIDE

ASSOCIATE IN SCIENCE Track 2

PROGRAM DESCRIPTION: The Associate in Science Track 2 degree is intended for students planning to transfer to baccalaureate institutions to major in computer science, engineering, physics or atmospheric sciences. Compared to the Associate in Arts degree, this degree delays some general education distribution credits until the junior or senior year in order to make room in the transfer degree for required freshman and sophomore-level science sequences.

PROGRAM OUTCOMES: General education introduces students to the content and methodology of the major areas of knowledge – communication, the humanities and fine arts, the natural sciences, mathematics and the social sciences – and helps them develop the intellectual skills that will make them more effective life-long learners. The College’s general education program intended to meet the transfer requirements of the four-year colleges and universities as outlined in the Intercollegiate Relations Commission Handbook. South Puget Sound Community College prepares recipients of the Associate in Sciences Track 2 degree to:

- Apply for admission to university computer science, engineering, physics or atmospheric sciences major programs with junior standing.
- Communicate effectively;
- Apply fundamental skills, understand mathematical relationships and appreciate the beauty and power of mathematical structures;
- Demonstrate knowledge of, or practice in, intellectual, cultural and artistic heritages;
- Explain and apply natural laws and theories that model the natural world;
- Understand themselves and others as they interact in a social, political and economic world;
- Think logically and critically;
- Integrate and synthesize knowledge; and
- Function more knowledgeably as responsible citizens in our democratic society.

PROGRAM REQUIREMENTS: In planning this degree, it is essential that the student work closely with a faculty advisor and the transfer institution so that the science credits within the degree create a seamless passage to the transfer institution.

A minimum of 90 credits are required, meeting the distribution in the table below. All courses must be college-level, with a cumulative average of 2.0 or above. A maximum of 5 credits in performance/skills courses may be applied to the humanities distribution requirement. A maximum of 5 credits may come from courses not on the General Education Distribution List. Copies of the list are available through Student Support Services or on line at www.spscc.ctc.edu.

It is strongly recommended that each science sequence be completed at a single institution.

<p>A. Communication: English Composition I _____</p> <p style="text-align: right;">Total 5 credits</p>	<p>B. Quantitative: Calculus I _____ Calculus II _____ Calculus III or Statistics _____</p> <p style="text-align: right;">Total 15 credits</p>
<p>C. Humanities _____</p> <p style="text-align: right;">Total 5 credits</p>	<p>D. Social Sciences _____</p> <p style="text-align: right;">Total 5 credits</p>
<p>E. Humanities or Social Sciences* _____</p> <p style="text-align: right;">Total 5 credits</p>	<p>* Must be in a different discipline than the courses used for part C or part D. C., D., or E. should fulfill the diversity requirement.</p>
<p>F. Chemistry: General Chemistry I _____</p> <p style="text-align: right;">Total 5 credits</p>	<p>G. General Physics I, II, III _____ OR Engineering Physics I, II, III _____</p> <p style="text-align: right;">Total 15 credits</p>

<p>H. Computer programming course chosen with the help of an advisor based on the requirements of the specific discipline and institution the student plans to attend.</p> <p>_____</p> <p style="text-align: center;">Total 5 credits</p>	<p>I. Remaining credits: **</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">Total credits 30</p>
<p>**Remaining credits must be planned with an advisor based on the requirements of the specific discipline at the 4-year institution. See your advisor and advising document for additional details.</p>	

DIVERSITY REQUIREMENT: South Puget Sound Community College requires all new students seeking an Associate Degree to complete a “diversity” course which meets the college criteria for listing as a diversity course and has been approved for such listing by the college Instruction Council prior to the student enrolling in the class.

OFFICE OF CIVIL RIGHTS COMPLIANCE STATEMENT: South Puget Sound Community College’s equal opportunity policy prohibits discrimination in our services and in employment against any person on the basis of race or ethnicity, creed, color, national origin, sex, marital status, sexual orientation, age, religion, Vietnam-era or disabled veteran status, or the presence of any sensory, physical or mental disability except in the case of a bona fide occupation qualification. South Puget Sound Community College is an equal opportunity/affirmative action employer and complies with the Americans with Disabilities Act (ADA).

Effective: 2007-2008 Academic Year
Revised: February 26, 2008

Recommended pathways for Engineering Students

Bio-Engineering and Chemical pre-engineering	Computer and Electrical Pre-engineering	Mechanical/Civil/Other	Computer Science
English 101	English 101	English 101	English 101
Calculus I, II, III	Calculus I, II, III	Calculus I, II, III	Calculus I, II, Statistics
Differential Equations	Differential Equations	Differential Equations	Differential Equations
	Linear Algebra	Linear Algebra	Linear Algebra
Programming class (see advisor)	Programming class (see advisor)	Programming class (see advisor)	Programming class (see advisor)
Engineering Physics I, II, III	Engineering Physics I, II, III	Engineering Physics I, II, III	Physics series
General Chemistry I, II, III	General Chemistry I	General Chemistry I, II	General Chemistry I
Organic Chemistry I Organic Chemistry II or General Biology I	Programming course II (object oriented) see advisor Electrical Circuits	Statics Dynamics Mechanics of Materials	CS 142 CS 143
Select 2 from list: (see advisor) Linear Algebra Calculus IV Technical Writing Biology I Biology II Organic Chemistry II	Select 4 from list (see advisor) Introduction to Engineering Calculus IV Technical Writing Statics Biology I	Select 3 from list (see advisor) Introduction to Engineering Calculus IV Technical Writing 3-D Visualization and CAD	Other courses planned with advisor.
Humanities/Social Science distribution	Humanities/Social Science distribution	Humanities/Social Science distribution	Humanities/Social Science distribution