

PHYSICAL SCIENCE - TRACK 1 (AS-T)

Associate in Science - Transfer (Track 1)
(90 credits)

Program Description

Test, question, discover, and work collaboratively with a group of peers who share your curiosity. By studying the sciences at SPSCC, you will be a part of small lectures led by faculty who are excited about teaching and their area of expertise. Our students use more equipment, perform more dissections, and work with more projects than many classes at 4-year institutions.

The Associate in Science-Transfer is designed for persons interested in transferring to a four-year college or university to study science or engineering. Students who successfully complete degree requirements and elective courses recommended for their specific area of study will transfer to many four-year degree programs with junior standing. Compared to the Associate of 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. AS-T Track 1 focuses on chemistry, biology, environmental and natural resource sciences and geology and earth sciences.

Career Opportunities

- Chemist
- Materials Scientist
- Conservation Scientist
- Environmental Scientist

Degree Planning

In planning this degree, students need to work closely with their advisor and the transfer institution so that the science credits within the degree create a seamless passage to the transfer institution. Although the Associate in Science-Transfer Degree transfers to four-year colleges and universities in Washington State, it may not meet specific department requirements.

To earn an Associate in Science-Transfer (Track 1) degree all courses taken must be:

- At college level (numbered 100 or above).
- A minimum of 85 of the 90 credits required for the degree must be from the General Education Requirements for the Associate in Arts & Science – Direct Transfer Agreement. Copies of the list are available online at spccc.edu/programs/general-ed-requirements.
- A class can only count once toward General Education requirements. For example, IIS 125 will satisfy either HUMANITIES or SOCIAL SCIENCE course requirements, but not both.
- A maximum of 5 credits in performance/skills courses may be applied to the humanities distribution requirement.

- A cumulative grade point average of 2.0 or above in all college-level courses required.
- Although this degree is a general transfer degree, South Puget Sound Community College has provided pathways and associated recommended courses for ease of student selection based upon a student's career interest. Please review the pathway maps for recommended courses and course sequences.

Outcomes

South Puget Sound Community College believes that all students need to develop a broad range of abilities that will not only make them more effective in their professional pursuits but will enhance their capacity to relate well to others in their daily lives.

- 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 is intended to meet the transfer requirements of four-year colleges and universities as outlined in the Intercollegiate Relations Commission Handbook.

The SPSCC college-wide abilities are embedded into each program:

- Effective Communication
- Information Literacy
- Analytical Reasoning
- Multicultural Awareness
- Social Responsibility

Courses by Quarter

Code	Title	Credits
Quarter 1		
Transition Studies		
Quarter 2		
AMATH 097	Corequisite Intermediate Algebra	7.0
ENGL 090	Integrated Reading and Writing I	5.0
or ENGL 095	Integrated Reading and Writing II	
CCS 101	Pathways to Success	3.0
Quarter 3		
AMATH 141	Corequisite Precalculus I ¹	8.0
ENGL 098	Transitional English Composition	5.0
or ENGL& 101	English Composition I	
CHEM& 139	General Chemistry Prep	5.0
Quarter 4		
MATH& 142	Precalculus II	5.0
CHEM& 161	General Chemistry w/Lab I ²	5.0
Select one of the following:		
CMST& 240	Intercultural Communication: Diversity	5
PHIL 103	Science, Technology, and Human Values	
Humanities Distribution Course (https://catalog.spccc.edu/distribution-requirements/aa-as-dt-degrees/) - Choose Any Language Course		5
Quarter 5		

MATH& 151	Calculus I	5.0
CHEM& 162	General Chemistry W/Lab II	5.0

Select one of the following: 5

BUS& 101	Introduction to Business
HIST& 128	World Civilization III
POLS& 202	United States Government
PSYC& 100	General Psychology
SOC& 201	Social Problems: Diversity

Quarter 6

MATH& 152	Calculus II	5.0
PHYS& 221	Engineering Physics I w/Lab ³	5.0
CHEM& 163	General Chemistry W/Lab III	5.0

Quarter 7

MATH& 153	Calculus III	5.0
or MATH& 146	Introduction to Statistics	
PHYS& 222	Engineering Physics II w/Lab	5.0

Select one of the following: 5

ANTH& 206	Cultural Anthropology: Diversity
CMST& 210	Interpersonal Communication: Diversity
HUM 121	Multicultural America: Diversity
SOC 285	Food and Society: Diversity

Quarter 8

Natural Science Distribution Course (https://catalog.spscc.edu/distribution-requirements/aa-as-dt-degrees/)	5	
General Elective Course from Any Distribution (https://catalog.spscc.edu/distribution-requirements/aa-as-dt-degrees/)	5	
PHYS& 223	Engineering Physics III w/Lab	5.0

¹ Some students may place directly into MATH& 141
² CHEM& 161/162/163 sequence starts in Fall and Winter
³ PHYS& 221/222/223 sequence starts in Fall and Winter

Pathway Maps

South Puget Sound Community College has provided pathways and associated recommended courses for ease of student selection based upon a student's career interest. Please review the pathway maps for required and recommended courses.

AS Track 1 – Physical Science Pathway Map
Associate in Science Track 1
90 Credits

Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 5	Qtr. 6	Qtr. 7	Qtr. 8
Transition Studies	AMATH 097 (Scr) Corequisite Intermediate Algebra Includes ability to complete: MATH 098 MATH 097	AMATH 141 (Scr) Corequisite Precalculus I Includes ability to complete: MATH 099 *MATH& 141 *Some students may place directly into MATH& 141	MATH& 142 (Scr) (Elective, required) Precalculus II	MATH& 151 (Scr) Calculus I	MATH& 152 (Scr) Calculus II	Choose One: (Scr) (Quantitative, required) MATH& 153 (Scr) Calculus III MATH& 146 (Scr) Introduction to Statistics	Choose One: (Scr) (Electives, recommended) ENGL& 102 Composition II ENVS& 100 Survey of Environmental Science ENVS 203 Climate and Energy Solutions NUTR& 101 Nutrition OCEAN 101 Introduction to Oceanography w/Lab
	ENGL 090 (Scr) Integrated Reading and Writing I ENGL 095 (Scr) Integrated Reading and Writing II	ENGL 098 (Scr) Transitional English Composition ENGL& 101 (Scr) English Composition I	Choose One: (Scr) (Humanities, recommended) CMST 240 Intercultural Communication: Diversity PHIL 103 Science, Technology, and Human Values Language any Gen. Ed. Course	Choose One: (Scr) (Social Science, recommended) BUS& 101 Introduction to Business HIST& 128 World Civilization III POLS& 202 American Government PSYC& 100 General Psychology SOC& 201 Social Problems: Diversity	PHYS& 221 (Scr) Engineering Physics I w/Lab PHYS& 221/222/223 sequence starts in Fall and Winter	PHYS& 222 (Scr) Engineering Physics II w/Lab	PHYS& 223 (Scr) Engineering Physics III w/Lab

CCS 101 (Scr) Pathways to Success	CHEM& 139 (Additional Science, recommended) (Scr) General Chemistry Prep	CHEM& 161 (Scr) General Chemistry w/Lab I CHEM& 161/162/163 sequence starts in Fall and Winter	CHEM& 162 (Scr) General Chemistry w/Lab II	CHEM& 163 (Scr) General Chemistry w/Lab III	Choose One: (Scr) (Humanities or Social Science/Diversity, recommended) ANTH& 206 Cultural Anthropology: Diversity CMST& 210 Interpersonal Communication: Diversity HUM 121 Multicultural America: Diversity SOC 285 Food and Society: Diversity	Choose One: (Scr) (Additional Science, recommended) ASTR& 100 Survey of Astronomy ANTH& 205 Biological Anthropology BIOL& 160 General Biology w/Lab BIOL& 175 Human Biology w/Lab BOT 101 Introduction to Botany
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*** Students are required to complete a minimum of 90 credits to attain the AS-1 degree. Students should work with their career and educational planner to plan out any additional electives or remaining credits.