



## Associate in Science- Transfer Track 2

### Engineering, Computer Science, Physics, and Atmospheric Sciences

#### 90 Credits Minimum

The Associate of Science Transfer (AS-T) Degree #2 is designed to prepare students for upper-division study in the areas of engineering, computer science, physics, and atmospheric science. Completing the AS-T degree will prepare students for upper division study; it does not guarantee students admission to the major. Like all Cascadia transfer degrees, the AS-T degree provides students with a solid foundation for future studies through the completion of a range of courses in the sciences and liberal arts. AS-T degree students should consult an academic advisor for full details.

Upon successful completion of this degree a student will be able to:

- Understand patterns and make connections among different disciplines and schools of knowledge and to integrate studies with personal experience
- Learn actively and gain comprehensive understanding; to think critically, creatively, and reflectively in order to solve problems; to communicate with clarity and originality for personal growth and productive work; and to interact in diverse and complex environments and complicated, dynamic, and ambiguous situations
- Demonstrate a solid foundation for baccalaureate science studies through the completion of an appropriate range of courses in the sciences and liberal arts

#### Completion Requirements

The Associate in Science-Transfer Track 2 degree requires at least 90 credit hours in college level courses (numbered 100 or above), a minimum cumulative 2.0 grade point average, a minimum of 25 credits in residence at Cascadia, and completion of all of the requirements for this degree. Students must meet with an advisor to complete and submit an application for graduation.

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#### GENERAL EDUCATION CORE REQUIREMENTS

**25 CREDITS**

##### Foundations for College Success

Must be completed within first 30 credits.

Course ID	Course Name	Lec	Lab	Other	Credits
COLL 101	College Strategies	55			5.0

##### Communication

Course ID	Course Name	Lec	Lab	Other	Credits
ENGL&101	English Composition I	55			5.0
ENGL&102, or ENGL&235	Composition II, or Technical Writing	55			5.0

##### Quantitative or Symbolic Reasoning

Course ID	Course Name	Lec	Lab	Other	Credits
MATH&151	Calculus I	55			5.0
MATH&152	Calculus II	55			5.0

2023-2024

SLC Approval: 06/03/2020

40.0101 / PHST2AS

### **EQUITY, DIVERSITY, AND POWER REQUIREMENT**

Students must complete a 150-series EDP course and at least one more additional EDP-designated course-- totaling ten (10) credits-- to meet the Equity, Diversity, and Power completion requirement. EDP courses in the 150-series ground students in the needed cognitive tools and background to critically analyze their position in our increasingly interconnected, complex, and diverse world so they can pursue further study and seek out their careers more intentionally. EDP designated courses may also apply toward Humanities, Social Science, Natural Science, or General Elective distribution requirements as indicated. See the Cascadia catalog for the complete list of EDP-designated courses.

### **HUMANITIES / SOCIAL SCIENCES DISTRIBUTION REQUIREMENT 15 CREDITS**

Students must complete courses from at least two different disciplines. No more than five credits may be included from those courses designated **HP** as performance/skills, applied theory or lecture/studio courses. Only 5.0 credits of a world language or ASL at the 100 level may be included. CMST 150, GS 150, HIST 150, HUMAN 150, or SOC 150 may be used to fulfill 5 credits of the Humanities or Social Sciences Distribution requirement.

Course ID	Course Name	Lec	Lab	Other	Credits
	H designated course	55			5.0
	SS designated course	55			5.0
CMST 150, GS 150, HIST 150, HUMAN 150, or SOC 150	150-series EDP designated course	55			5.0

### **PRE-MAJOR REQUIREMENT 25-26 CREDITS**

Students must complete courses from at least two different disciplines, and include at least five credits of a lab course (**LAB**). At least 10 credits required in physical, earth and/or biological sciences. Students should complete the sequence courses listed below at one institution.

Course ID	Course Name	Lec	Lab	Other	Credits
CHEM&161, or Other science	General Chemistry w/ Lab I, or See advisor for other major options	var.	var.		6.0, or 5.0
MATH& 146, or MATH&163	Introduction to Statistics, or Calculus 3	55			5.0
PHYS&221	Engineering Physics I	44	22		5.0
PHYS&222	Engineering Physics II	44	22		5.0
PHYS&223	Engineering Physics III	44	22		5.0

### **PROGRAM REQUIRED ELECTIVES 25 CREDITS**

Remaining elective credits should be planned with the help of an advisor based on the requirements of the specific major at the baccalaureate institution the student plans to attend. Elective credits may be selected from any of the distribution and elective courses. Consult an advisor for more information.