

# Spokane Community College and Spokane Falls Community College

## ASSOCIATE IN SCIENCE TRANSFER (TRACK 2)

### COMPUTER AND ELECTRICAL PRE-ENGINEERING

### DEGREE REQUIREMENTS

The Associate in Computer and Electrical pre-Engineering (AS-T #2) degree is a statewide articulated transfer agreement for future engineers between community colleges and most four-year institutions. A candidate for the Associate in Science Transfer degree must complete 100 quarter credits in academic courses numbered 100 and above with a cumulative grade point average of at least 2.0 and meet specific distribution requirements. Courses must be chosen from the following distribution areas: communication – 5 credits; humanities/ social sciences – 15 credits; mathematics – 30 credits; science/engineering – 40 credits; and 10 credits in pre-engineering electives. **At least 5 credits must be W-designated (writing-intensive).** At least 30 credits must be earned in residence from Spokane Community College or Spokane Falls Community College with at least 15 credits earned at the college awarding the degree. Prior college- level credits and grade points are transferred for calculating total credits and GPA. This degree does not fulfill all general education requirements of four-year institutions.

**DISTRIBUTION** Credits for a specific course may be used in only one distribution area requirement.

**2018-2019**

#### COMMUNICATION 5 credits

Courses from this area do not satisfy the writing-intensive requirement.

ENGL& 101, 102  
JOURN 220

#### HUMANITIES/SOCIAL SCIENCES 15 credits

Minimum of 5 credits from Group A: Humanities.  
Minimum of 5 credits from Group B: Social Sciences.  
Additional 5 credits from Group A **OR** Group B.  
No more than 5 credits in a foreign language or ASL.

##### GROUP A: HUMANITIES

ART 108, 109, 110, 112; ART& 100  
CMST 226, 227  
DRMA& 101  
ENGL 208, 209, 241, 247, 248, 249, 259, 261, 271,  
272, 278; ENGL& 111, 112, 113, 114, 220  
FILM 141, 221, 222, 224, 225, 236  
Foreign Language **OR** ASL – 5 credits only  
HUM 107, 201; HUM& 101  
JOURN 110  
MUSC 106, 108, 109, 124; MUSC& 105, 141, 142, 143,  
241, 242, 243  
PHIL 110, 209, 215, 220, 231; PHIL& 101, 115, 120

##### GROUP B: SOCIAL SCIENCES

A course in Macro Economics is recommended.

ANTH& 100, 206, 210  
ECON 100; ECON& 201, 202  
GEOG 101, 230, 260  
HIST 105, 106, 107, 230, 240; HIST& 116, 117, 118,  
136, 137, 214, 219  
POLS 102, 125, 204, 205; POLS& 101, 202, 203  
PSYC 204, 210, 250; PSYC& 100, 180, 200, 220  
SOC 204, 211, 221, 230, 261; SOC& 101, 201

#### MATHEMATICS 30 credits

MATH 220, 274; MATH& 151, 152, 153, 254

#### SCIENCE/ENGINEERING 40 credits

Groups A, B, C AND D requirements must all be met.

##### GROUP A: Physics (calculus based) (15cr sequence)

PHYS 201, 202, 203 (SFCC only)

##### GROUP B: Chemistry (5cr)

CHEM& 161

##### GROUP C: Computer Programming (10cr)

Although two quarters of computer language are required for the AS-T #2, GU requires CS& 141 only for Electrical Engineering and EWU requires CS 255 only for Electrical Engineering. Students should consult intended transfer institution for computer language requirements.

CS 253, 255 (SFCC only)

**OR**

CS 142; CS& 141 (SFCC only)

##### GROUP D: Engineering (10cr)

ENGR 190, 210 (SFCC only)

#### PRE-ENGINEERING ELECTIVES 10 credits

Select two electives as appropriate for intended major and intended four-year institution in consultation with the engineering adviser.

BIOL& 222  
ENGL& 235  
ENGR 201 (SFCC only)

##### NOTES:

1. Students are responsible for checking specific major requirements of four-year institutions in the year prior to transferring.
2. It is recommended that sequential science classes be completed at one institution.
3. Students completing this Associate in Science Transfer (AS-T) degree will receive the same priority consideration for admission to the four-year institution as they would for completing the direct transfer associate's degree and will be given junior status by the receiving institution; this degree does not guarantee student's admission to the major.
4. Additional general education requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
5. This degree may not fulfill all general education requirements of a particular four-year institution. Students should work with the engineering adviser for further guidance specific to their goals.

**NOTE:** Some institutions have requirements for admission to the major that go beyond those specified above. Students can meet these requirements by careful selection of additional elective courses. Students should work with a counselor or academic adviser for further guidance specific to their goals.

**NOTICE:** Due to the specialized nature of many of the listed courses, students should consult a counselor or academic adviser and the catalog of the four-year institution to which they plan to transfer for specific degree requirements.

**DISCLAIMER:** During the period this guide is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit or adviser for more current and specific information. The information in this guide is subject to change and does not constitute an agreement between the college and the student.

# ASSOCIATE IN SCIENCE TRANSFER (TRACK 2) DEGREE COMPUTER AND ELECTRICAL PRE-ENGINEERING WORKSHEET 2018-2019

A total of 100 quarter credits are required. **At least 5 credits must be W-designated (writing-intensive).** See reverse side for the complete statement of degree requirements and listing of available courses.

Counselor Initials

Date

Student Identification Number

Name

## I. COMMUNICATION—5 credits

Course	Date	Cr
ENGL& 101, 102		
JOURN 220		
<b>COMMUNICATION TOTAL</b>		

## II. HUMANITIES/SOCIAL SCIENCES

—15 credits

Minimum of 5 credits from Group A: Humanities.  
Minimum of 5 credits from Group B: Social Sciences.  
Additional 5 credits from Group A **OR** Group B.  
No more than 5 credits in a foreign language or ASL.

### GROUP A: Humanities (minimum of 5cr)

Course	Date	Cr
Art		
CMST 226, 227		
DRMA& 101		
English		
Film		
Foreign Language OR ASL		
Humanities		
JOURN 110		
Music		
Philosophy		
<b>HUMANITIES/SOCIAL SCIENCES TOTAL</b>		

### GROUP B: Social Sciences (minimum of 5cr)

A course in Macro Economics is recommended.

Course	Date	Cr
Anthropology		
Economics		
Geography		
History		
Political Science		
Psychology		
Sociology		
<b>HUMANITIES/SOCIAL SCIENCES TOTAL</b>		

## III. MATHEMATICS—30 credits

Course	Date	Cr
MATH& 151		
MATH& 152		
MATH& 153		
MATH 220		
MATH& 254		
MATH 274		
<b>MATHEMATICS TOTAL</b>		

## IV. SCIENCE/ENGINEERING

—40 credits

Groups A, B, C **AND** D requirements must all be met.

### GROUP A: Physics (calculus based) (15cr sequence)

Course	Date	Cr
PHYS 201 (SFCC only)		
PHYS 202 (SFCC only)		
PHYS 203 (SFCC only)		

### GROUP B: Chemistry (5cr)

Course	Date	Cr
CHEM& 161		

### GROUP C: Computer Programming (10cr)

Although two quarters of computer language are required for the AS-T #2, GU requires CS& 141 only for Electrical Engineering and EWU requires CS 255 only for Electrical Engineering. Students should consult intended transfer institution for computer language requirements.

Course	Date	Cr
CS 253 (SFCC only) <b>AND</b>		
CS 255 (SFCC only)		
<b>OR</b>		
CS& 141 (SFCC only) <b>AND</b>		
CS 142 (SFCC only)		

### GROUP D: Engineering (10cr)

Course	Date	Cr
ENGR 190 (SFCC only)		
ENGR 210 (SFCC only)		
<b>SCIENCE/ENGINEERING TOTAL</b>		

## V. PRE-ENGINEERING ELECTIVES

—10 credits

Select two electives as appropriate for intended major and intended four-year institution in consultation with the engineering adviser.

Course	Date	Cr
BIOL& 222		
ENGL& 235		
ENGR 201 (SFCC only)		
<b>ELECTIVES TOTAL</b>		

**W COURSE** \_\_\_\_\_  
course title/number