

# Spokane Community College and Spokane Falls Community College

## ASSOCIATE OF SCIENCE TRANSFER (TRACK 2)

### DEGREE REQUIREMENTS

#### COMPUTER AND ELECTRICAL PRE-ENGINEERING

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 this degree must complete 100 credits in academic courses numbered 100 and above with a cumulative grade point average of at least 2.0. Courses must be chosen from the following specified distribution areas: communication – 5 credits; humanities/ social sciences – 15 credits; mathematics – 25 credits; science/engineering – 40 credits; and 15 credits in approved academic electives. **At least 5 credits must be W-designated (writing-intensive).** At least 30 credits must be earned from Spokane Community College or Spokane Falls Community College. At SFCC, all 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. 2009-2010

### COMMUNICATION 5 credits

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

ENGL& 101, 102, 235  
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 227  
DRMA& 101  
ENGL 208, 209, 241, 247, 248, 249, 251, 259, 261,  
271, 272, 278; ENGL& 111, 112, 113, 114, 220  
Foreign Language **OR** ASL – 5 credits only  
HUM 107, 141, 201, 221, 222, 223, 224, 236;  
HUM& 101  
JOURN 110  
MUSC 108, 109, 124, 191, 235, 236, 237; MUSC& 105,  
141, 142, 143, 241, 242, 243  
PHIL 210, 215, 220, 231; PHIL& 101, 106

#### GROUP B: SOCIAL SCIENCES

ANTH& 100, 206, 210  
ECON 100; ECON& 201, 202<sup>1</sup>  
GEOG 101, 230, 260  
HIST 141, 142, 222, 230, 240; HIST& 116, 117, 118,  
136, 137, 214, 219  
POLS 102, 125, 201, 204, 205; POLS& 101, 202, 203  
PSYC 204, 210, 250; PSYC& 100, 200, 220  
SOC 204, 211, 221, 230, 261; SOC& 101, 201  
WS 201

### MATHEMATICS 25 credits

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

### 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

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

CHEM& 161

#### GROUP C: Computer Programming<sup>2</sup> (10cr)

CS 253, 255

**OR**

CS 142 (for UW and EWU); CS& 141

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

ENGR 190, 210

### ELECTIVES 15 credits

Select 3 electives as appropriate for intended major and intended four-year institution in consultation with the engineering adviser.

CS 142, 211, 223, 225, 253, 255, 280; CS& 141<sup>3</sup>  
ENGR 110, 111, 201, 202  
MATH 221, 225; MATH& 254

<sup>1</sup> A course in Economics is recommended.

<sup>2</sup> Programming language required by different institutions may vary.

<sup>3</sup> Programming course level must be above that chosen in meeting programming requirement.

#### 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 of 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 OF SCIENCE TRANSFER (TRACK 2) DEGREE COMPUTER AND ELECTRICAL PRE-ENGINEERING WORKSHEET 2009-2010

A total of 100 credits is 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. (Credits beyond required amounts in categories I through V are counted as electives.)  
See reverse side for the complete statement of degree requirements and listing of available courses.  
(Credits beyond required amounts in categories I through IV are counted as electives.)

## I. COMMUNICATION—5 credits

Course	Date	Cr
ENGL& 101, 102, 235		
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 227		
DRMA& 101		
English		
Foreign Language <b>OR</b> ASL		
Humanities (HUM)		
JOURN 110		
Music (MUSC)		
Philosophy		

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

Course	Date	Cr
Anthropology		
Economics <sup>1</sup>		
Geography		
History		
Political Science		
Psychology		
Sociology		
Women's Studies (WS 201)		

**HUMANITIES/SOCIAL SCIENCES TOTAL**

## III. MATHEMATICS—25 credits

Course	Date	Cr
MATH& 151		
MATH& 152		
MATH& 153		
MATH 220		
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		
PHYS 202		
PHYS 203		

### GROUP B: Chemistry (5cr)

Course	Date	Cr
CHEM& 161		

### GROUP C: Computer Programming<sup>2</sup> (10cr)

Course	Date	Cr
CS 253 <b>AND</b>		
CS 255		
<b>OR</b>		
CS& 141 <b>AND</b>		
CS 142 (for UW and EWU)		

### GROUP D: Engineering (10cr)

Course	Date	Cr
ENGR 190		
ENGR 210		

**SCIENCE/ENGINEERING TOTAL**

## VI. ELECTIVES—15 credits

Select 3 electives as appropriate for intended major and intended four-year institution in consultation with the engineering adviser.

Course	Date	Cr
CS 142, 211, 223, 225, 253, 255, 280; CS& 141 <sup>3</sup>		
ENGR 110, 111, 201, 202		
MATH 221, 225; MATH& 254		
<b>ELECTIVES TOTAL</b>		

- <sup>1</sup> A course in Economics is recommended.
- <sup>2</sup> Programming language required by different institutions may vary.
- <sup>3</sup> Programming course level must be above that chosen in meeting programming requirement.

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

Counselor's Initials

Date

Student Identification Number

Name