

Spokane Community College and Spokane Falls Community College

ASSOCIATE OF SCIENCE TRANSFER (TRACK 2)

DEGREE REQUIREMENTS

BIOENGINEERING AND CHEMICAL PRE-ENGINEERING

The Associate in Bioengineering and Chemical 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 105 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 – 20 credits; science/engineering – 50 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, 202¹
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 20 credits

MATH 274; MATH& 151, 152, 153

SCIENCE/ENGINEERING 50 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 (15cr)
CHEM& 161, 162, 163

GROUP C: Chemistry/Biology (10cr)
CHEM& 241/251 **AND** one of the following:
CHEM& 242/252 **OR** BIOL& 160

GROUP D: Engineering (10cr)
ENGR 103, 201

Note: Transfer requirements vary based on major. Students should consult with their counselor or academic adviser and the appropriate department at the transfer university.

ELECTIVES 15 credits

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

BIOL& 160
CHEM& 242/252
ENGR 110, 111, 202, 203, 210
MATH 220; MATH& 254
Programming Course (CS 255)

¹ A course in Economics is recommended.

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 a counselor or academic 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 BIOENGINEERING AND CHEMICAL PRE-ENGINEERING WORKSHEET 2009-2010

A total of 105 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.)

Counselor's Initials _____
Date _____
Student Identification Number _____
Name _____

I. COMMUNICATION—5 credits

Course	Date	Cr
ENGL& 101, 102, 235		
JOURN 220		
COMMUNICATION TOTAL		

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 OR ASL		
Humanities (HUM)		
JOURN 110		
Music (MUSC)		
Philosophy		
HUMANITIES/SOCIAL SCIENCES TOTAL		

GROUP B: Social Sciences (minimum of 5cr)

Course	Date	Cr
Anthropology		
Economics ¹		
Geography		
History		
Political Science		
Psychology		
Sociology		
Women's Studies (WS 201)		
HUMANITIES/SOCIAL SCIENCES TOTAL		

III. MATHEMATICS—20 credits

Course	Date	Cr
MATH& 151		
MATH& 152		
MATH& 153		
MATH 274		
MATHEMATICS TOTAL		

IV. SCIENCE/ENGINEERING—50 credits

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

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

Course	Date	Cr
PHYS 201		
PHYS 202		
PHYS 203		

GROUP B: Chemistry (15cr)

Course	Date	Cr
CHEM& 161		
CHEM& 162		
CHEM& 163		

GROUP C: Chemistry/Biology (10cr)

Course	Date	Cr
CHEM& 241/251 (required)		
CHEM& 242/252 OR BIOL& 160		

GROUP D: Engineering (10cr)

Course	Date	Cr
ENGR 103		
ENGR 201		
SCIENCE/ENGINEERING TOTAL		

V. 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
BIOL& 160		
CHEM& 242/252		
ENGR 110, 111, 202, 203, 210		
MATH 220, MATH& 254		
Programming Course (CS 255)		
ELECTIVES TOTAL		

¹ A course in Economics is recommended.

^W COURSE _____
course title/number