

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.

2008-2009

COMMUNICATION 5 credits

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

ENGL& 101, 102, 235 (formerly ENG 101, 201, 205)
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.

GROUP A: HUMANITIES

ART 108, 109, 110, 112; ART& 100 (formerly ART 107)
DRMA& 101 (formerly DRAMA 115)
ENGL 208, 209, 241, 248, 249, 247, 251, 261, 271,
272, 278 (formerly ENG 208, 209, 241, 245, 246, 247,
251, 261, 271, 272, 278);
ENGL& 111, 220, 113, 114, 112 (formerly ENG 131,
210, 275, 276, 277)

Foreign Language **OR** ASL – 5 credits only
HUM 107, 141, 201, 221, 222, 223, 224, 236 (formerly
HUMAN 107, 141, 201, 221, 222, 223, 224, 236);
HUM& 101 (formerly HUMAN 101)
JOURN 110

MUSC 124, 108, 109, 191, 235, 236, 237 (formerly MUSIC
104, 108, 109, 191, 221, 222, 223); MUSC& 141, 142,
143, 105, 241, 242, 243 (formerly MUSIC 101, 102, 103,
107, 201, 202, 203)

PHIL 210, 215, 220, 231; PHIL& 101, 106 (formerly
PHIL 101, 201)

CMST 227 (formerly SPCH 220)

GROUP B: SOCIAL SCIENCES

ANTH& 100, 206, 210 (formerly ANTHR 101, 201, 204)
ECON 100; ECON& 202, 201 (formerly ECON 201,
202)¹

GEOG 101, 230, 260

HIST 141, 142, 222, 230, 240; HIST& 116, 117, 118,
136, 137, 219, 214 (formerly HIST 101, 102, 103, 121,
122, 140, 260)

POLS 102, 125, 201, 204, 205 (formerly POLSC 102, 125,
201, 202, 203); POLS& 101, 202, 203 (formerly POLSC
101, 111, 270)

PSYC 204, 210, 250 (formerly PSYCH 204, 210, 250);
PSYC& 100, 200, 220 (formerly PSYCH 101, 201, 215)

SOC 175, 211, 221, 261; SOC& 101, 201 (formerly
SOC 101, 240)

WS 201

¹ A course in Economics is recommended.

MATHEMATICS 20 credits

MATH 274; MATH& 151, 152, 153 (formerly MATH 124,
125, 126)

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 (formerly CHEM 141, 142, 143)

GROUP C: Chemistry/Biology (10cr)

CHEM& 241/251 (formerly CHEM 201/ 211) **AND**
one of the following:
CHEM& 242/252 (formerly CHEM 202/212) **OR** BIOL&
160 (formerly BIOL 101)

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.

ENGR 110, 111, 202, 203, 210

MATH 220; MATH& 254 (formerly MATH 224)

CHEM& 242/252 (formerly CHEM 202/212)

BIOL& 160 (formerly BIOL 101)

Programming Course (CS 255)

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. For transferring students, 85 of the 90 credit total must be fully transferable as defined by the Intercollege Relations Commission (ICRC) guidelines for the Direct Transfer Agreement to be honored by four-year institutions in Washington.

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 an additional elective course. 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 2008-2009

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 (formerly ENG 101, 201, 205)		
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.

GROUP A: Humanities (minimum of 5cr)

Course	Date	Cr
ART		
DRMA& 101 (formerly DRAMA 115)		
English		
Foreign Language OR ASL		
Humanities (HUM)		
JOURN 110		
Music (MUSC)		
Philosophy		
CMST 227 (formerly SPCH 220)		

GROUP B: Social Sciences (minimum of 5cr)

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

III. MATHEMATICS—20 credits

Course	Date	Cr
MATH 274		
MATH& 151, 152, 153 (formerly MATH 124, 125, 126)		
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, 202, 203		

GROUP B: Chemistry (15cr)

Course	Date	Cr
CHEM& 161, 162, 163 (formerly CHEM 141, 142, 143)		

GROUP C: Chemistry/Biology (10cr)

Course	Date	Cr
CHEM& 241/251 (formerly CHEM 201/211) AND one of the following:		
CHEM& 242/252 (formerly CHEM 202/212) OR BIOL& 160 (formerly BIOL 101)		

GROUP D: Engineering (10cr)

Course	Date	Cr
ENGR 103, 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
ENGR 110, 111, 202, 203, 210		
MATH 220, MATH& 254 (formerly MATH 224)		
CHEM& 242/252 (formerly CHEM 202/212)		
BIOL& 160 (formerly BIOL 101)		
Programming Course (CS 255)		
ELECTIVES TOTAL		

"W" COURSE _____
course title/number