

**BIOENGINEERING AND CHEMICAL ENGINEERING
ASSOCIATE IN SCIENCE – TRANSFER (AS-T) – TRACK 2
Major Related Program**

This degree is part of the Washington State Associate in Science-Transfer Agreement. It requires a minimum from 101 to 111 quarter credits in specific course requirements as described below and a cumulative GPA of 2.0 or higher. Students granted the degree are normally awarded junior status for general college/university purposes and in most cases will be able to enter junior level courses of their chosen major, which will allow them to complete their Bachelors in two additional years of full-time study. Students will be required to take additional General Education courses to fulfill requirements of their baccalaureate college/university. **See reverse side for a complete listing of courses that fulfill general education and distribution requirements.**

I. GENERAL EDUCATION CORE REQUIREMENTS—18-20 Cr

Courses used in Gen Ed core may not be used for Distribution.

	Qtr	Gr	Cr
Communication: ENGL& 101			5
Additional Communication: ENGL& 102 or 230 or CMST& 101			3-5
Multicultural Understanding			5
Quantitative/Symbolic Reasoning: MATH& 151			5

II. DISTRIBUTION REQUIREMENTS -- 10 Cr

Humanities--5 Cr			
<i>See list of choices on reverse side.</i>	Qtr	Gr	Cr
1.			
Social Sciences--5 Cr			
<i>See list of choices on reverse side.</i>	Qtr	Gr	Cr
1.			
A course in Economics is recommended			

III. PRE MAJOR PROGRAM – 73-80 Cr

Physics – 16.5* Cr			
Calculus-Based Sequence	Qtr	Gr	Cr
PHYS& 221/231 (Fall, Win)			5.5
PHYS& 223/233 (Win, Spr)			5.5
PHYS& 222/232 (Spr, Sum)			5.5
Calculus 2nd and 3rd quarter -10 Cr			
MATH& 152 (every qtr)			5
MATH& 163 (every qtr)			5
Additional Mathematics – 5* Cr			
MATH 207 (Fall, Spr)			5
Chemistry – 31.5 – 33.5* Cr			
CHEM 171/181 (Fall, Win, Spr)			6.5
CHEM 172/182 (Win, Spr, Sum)			6.5
CHEM 173/183 (Spr, Sum, Fall)			6.5
CHEM& 241/271 (Fall, Win)			7
<i>Choose one from below:</i>			
CHEM E: CHEM& 242/272 (Win, pr)			7

BIOL E: BIOL& 211 (every qtr)			5
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Select three from below – 10-17 Cr	Qtr	Gr	Cr
BIOL& 211 (if not taken above)			5
BIOL& 212 (Win, Spr)			5
CHEM& 242/272 (if not taken above)			7
CS 121 OR 141 (every qtr)			5
ENGL& 230 (Tech Writing) (Fall, Spr) If this class is taken for Additional Communications (left column, near top), it counts here too (Required by UW)			3
ENGR& 204 (Fund EE) (Win)			5
ENGR& 224 (Thermodynamics) (Spr)			5
MATH 208 (Linear Alg) (Win)			5
MATH& 264 (Calculus 4) (Spr)			5

*Courses transferred in from other schools may carry fewer credits per course. If those courses are evaluated as equivalent to SCC courses, these requirements may be met with fewer credits. A student must have a minimum of 90 college credits to earn an Associates degree.

Students transferring to U of W must meet high school core admissions requirements, including two years of the same world language in high school or two quarters in college. The third year/quarter of a language is a graduation requirement for students in the College of Arts & Sciences at U of W.

It is strongly recommended that students complete an entire sequence of science courses at one institution.

Advisors:

- Eleanor Christensen, Engineering, Rm 5305, Ph: 546-4504
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- Joyce Fagel, Science Advisor, Rm 2814, Ph 546-6984
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STUDENT:	
ADVISOR:	DATE:

The following is a list of classes which satisfy Shoreline's 2009-2010 AS-T General Education and Distribution requirements. Credits for a specific course may be used only once, i.e. may not be applied toward more than one distribution. **To graduate from SCC, complete a graduation application and return it to the Credential Evaluator or the Information Desk, which are both located in the FOSS Bldg – (5000 Bldg 2nd Floor) no later than the quarter before you plan to graduate.**

**GENERAL EDUCATION
CORE REQUIREMENTS**

18-20 credits

Communication - 5 credits

English& 101

Additional Communication – 3-5 credits

English& 102, 230

Communications Studies& 101

Multicultural Understanding - 5 credits

Communication Studies 203

History 245

Intra-American Studies 105, 245, 284

Women Studies 284

Quantitative/Symbolic Reasoning – 5 credits

Mathematics& 151

ADDITIONAL SCIENCE REQUIREMENT

Refer to front page for specific requirements for your major.

Minimum of 5 credits

Anthropology& 205*

Astronomy& 101

Biology& 100, 170, 211, 212, 213, 231, 232, 260

Biology 102, 124, 126, 144, 150*, 244, 249, 274, 275, 277

Chemistry& 110, 121, 131, 139, 241/271 242/272, 243

Chemistry 171/181, 172/182, 173/183,

Environmental Science& 100, 101

Environmental Science 202

Geography& 203, 204

Geology& 101, 103, 115, 208

Geology 107, 201

Nutrition& 101*

Oceanography& 101

Philosophy& 106*

Psychology 202*

**these courses may not meet requirements at some Baccalaureate Colleges or Universities.*

DISTRIBUTION REQUIREMENTS

HUMANITIES

5 credits

No more than 5 credits in foreign language at the 100 level.

General:

American Sign Language& 121-123, 221, 222

Art& 100

Art History 204, 210, 224, 225, 226

Chinese& 121, 122, 123

Cinema 201

Communication Studies& 101, 102, 210, 220

Communication Studies 203, 215, 235

Drama& 101

English& 111, 112, 114, 220, 226-228, 244-246

English 113, 154, 190, 200, 229, 236, 247, 248, 257, 265, 271, 272, 281, 282, 287- 289

French& 121, 122, 123, 221-223

Humanities 111-113, 160, 275

Intra-American Studies 109, 206, 215, 220, 234

Japanese& 121, 122, 123, 221-223

Music& 105, 141, 142, 143, 241, 242, 243

Music 100, 106, 108, 109, 150, 200, 206, 224

Philosophy& 101

Philosophy 102, 115, 210, 230, 240, 248, 267

Spanish& 121, 122, 123, 221, 222, 223

Performance/Skills Applied Theory,

Lecture/Studies: *If chosen, a maximum of five credits from list below.*

Art 109, 110, 121-123, 130-133, 144-146, 247, 250-256, 260, 265, 271-273

Communication Studies& 230

Communication Studies 140, 244, 247, 249

Drama 144-146, 164-169, 207-209, 225, 226, 234, 235, 236, 255

Humanities 164, 165

Music 114, 115, 117-120, 124, 135, 136, 140, 144, 146, 147, 150-156, 161-167, 170, 175, 180, 184, 196, 204, 205, 207, 211, 212, 225, 226, 251-253, 264, 268, 270, 280, 284, 296

SOCIAL SCIENCES

5 credits

Anthropology& 100, 204, 206, 207

Business& 101

Communication Studies& 102

Criminal Justice& 112

East Asia 215, 216, 217, 218

Economics& 201, 202

Economics 100, 215, 260, 272, 273, 291-295

Geography& 100, 200

Geography 250, 277, 295

History& 116, 117, 118, 136, 137, 214, 215

History 218, 234-238, 245-247, 256, 260, 274, 295

International Studies 101, 200, 201, 205, 295

Philosophy& 101

Philosophy 102, 115, 167, 210, 230, 240, 248, 267, 295

Political Science& 101, 202, 203

Political Science 221, 276, 291, 292, 293

Psychology& 100, 200, 220

Psychology 206-210, 236, 245, 295

Social Science 100

Sociology& 101, 201

Sociology 112, 250, 288, 295

Women's Studies 205, 215, 284, 285, 286, 295

Course numbers for many courses at SCC have changed effective Summer 2008. Courses with an "&" are Common Course Numbers and will be consistent across WA State Community Colleges.

Courses listed as meeting Humanities and Social Science distribution areas can only be used to satisfy one distribution area, not both.

NOTICE: Planning guides are intended to guide students toward completing degree requirements. They are not intended to communicate admissions requirements of 4-year institutions. Students are strongly advised to consult with an advisor and the catalog of the 4-year institution to which they plan to transfer. Other conditions & restrictions may also apply