



20000 68th Ave W  
Lynnwood, WA 98036-5999  
www.edcc.edu

## Associate of Science Transfer Degree Track 2 Bioengineering, Chemical Pre-Engineering Program Requirements 2011-2012

Student Name \_\_\_\_\_  
Student ID \_\_\_\_\_

**Program Description** The Associate of Science (AS) transfer degree is designed to prepare bioengineering and chemical pre-engineering majors for transfer to a four-year institution with junior standing. The AS transfer degree will generally provide the transferring student with at least **100.5** credits upon entry to a four-year institution. This transfer degree will satisfy some, but not all, of the general education requirements at the receiving institution.

Students who enter Edmonds Community College with clear intentions of majoring in a field of engineering are strongly advised to plan their course of study by meeting with an appropriate adviser to review the specific degree requirements for their academic program at their intended transfer institution.

For more information about the AS Transfer Degree and transferring to a 4-year college visit  
<http://transferdegrees.edcc.edu>

**Degree Outcomes** Outcomes for Edmonds Community College degrees and certificates can be found in the online college catalog at the bottom of each degree or certificate. To find specific outcomes, click on the degree or certificate from the program list in the online catalog at  
<http://catalog.edcc.edu>.

**Common Course Numbering Changes** Please refer to [www.edcc.edu/ccn](http://www.edcc.edu/ccn) for more information.

**Credit/Grade Requirements** This AS transfer degree is awarded upon completion of a minimum of **100.5** credits of *General Requirements, Distribution Requirements, Specific Requirements, and Electives* as outlined, with a minimum cumulative grade point average of 2.0 in all college-level courses. At least 30 credits must be earned at Edmonds Community College.

**Cultural Diversity** Students pursuing an AS transfer degree must meet the 5-credit Cultural Diversity requirement by completing courses marked as “:CD” on the requirement sheet and/or “Meets Cultural Diversity Requirement” in the quarterly class schedule. Those courses may also be used to fulfill other requirements of the degree.

### Students Are Advised To

- Consult with an engineering faculty adviser and the appropriate department at your four-year transfer institution on course selection and completion of degree requirements
- Consult an engineering faculty advisor for approval to substitute Applied Numerical Methods for either CS& 131 or CS& 141 in the Electives section.
- Plan your schedule, in consultation with an engineering faculty adviser, several quarters in advance to accommodate courses that are offered only once or twice per year
- Review the college catalog for required course prerequisites and include these in schedule planning
- At least three quarters before you plan to graduate, contact any college(s) where you have earned credits and have your official transcript(s) sent to Edmonds Community College
- Submit an “Evaluation Request-Transfer Credits” form (available in Enrollment Services) to activate the process of transferring credits to Edmonds Community College

**Graduation Application** A completed Graduation Application form must be submitted to Enrollment Services by the 10<sup>th</sup> day of the quarter in which the student expects to graduate. Forms are available at Enrollment Services located in Lynnwood Hall, or online at [www.edcc.edu/credentials/](http://www.edcc.edu/credentials/)

### College Resources

EdCC Home Page	<a href="http://www.edcc.edu">http://www.edcc.edu</a>
How to Enroll	<a href="http://getstarted.edcc.edu">http://getstarted.edcc.edu</a>
Transfer Center	<a href="http://transfer.edcc.edu">http://transfer.edcc.edu</a>
College Bookstore	<a href="http://bookstore.edcc.edu">http://bookstore.edcc.edu</a>
Advising appointments	425-640-1458

### PLANNING NOTES

1. A maximum of 5 credits in performance/skills courses may be applied to the Humanities distribution requirement. (See the Distribution Requirements list)
2. A maximum of 5 credits in foreign language at the 100 level may be applied to the Humanities distribution requirement

<u>Course</u>	<u>Qtr</u>	<u>Cr</u>	<u>Gr</u>
<b>I. General Requirements (13 Credits)</b>			
<b>Written Skills (10 Credits)</b>			
ENGL& 101 English Composition I	_____	5	_____
ENGL& 102 Composition II <b>OR</b> ENGR 231 Intro to Tech Writing	_____	5	_____
<b>HLTH/PE (3 Credits)</b>			
HLTH 100 <b>OR</b>	_____	3	_____
HLTH 105 <b>OR</b>	_____	4	_____
HLTH 150 <b>OR</b>	_____	3	_____
PE _____	_____	3	_____
<input type="checkbox"/> <b>Cultural Diversity requirement met (See pg. 1)</b>			
<b>II. Distribution Requirements (15 Credits)</b>			
<b>A. Humanities (Minimum 5 Credits)</b> (Planning Notes 1 and 2)			
_____	_____	_____	_____
_____	_____	_____	_____
<b>B. Social Sciences (Minimum 5 Credits)</b> (Economics recommended)			
_____	_____	_____	_____
<b>III. Specific Requirements (Minimum 67.5 credits)</b>			
<i>Class choices depend on major and transferring institution. Choose carefully in consultation with an adviser</i>			
ENGR 100 Engineering Orientation	_____	3	_____
MATH& 151 Calculus I	_____	5	_____
MATH& 152 Calculus II	_____	5	_____
MATH& 153 Calculus III	_____	5	_____
MATH 271 Differential Equations	_____	5	_____
CHEM& 141, 151 General Chemistry I	_____	6	_____
CHEM& 142, 152 General Chemistry II	_____	6	_____
CHEM& 143, 153 General Chemistry III	_____	6	_____
CHEM& 241, 251 Organic Chemistry I	_____	6	_____
CHEM& 242, 252 Organic Chemistry II	_____	6	_____
<b>OR</b>			
BIOL& 211 Majors Cellular	_____	5.5	_____
PHYS& 221, 231 Engineering Physics I	_____	5	_____
PHYS& 222, 232 Engineering Physics II	_____	5	_____
PHYS& 223, 233 Engineering Physics III	_____	5	_____
<b>IV. Electives (Minimum 5 Credits) (Select 1)</b>			
<i>Class choices depend on major. Choose carefully in consultation with an adviser</i>			
BIOL& 211 Majors Cellular	_____	5.5	_____
BIOL& 212 Majors Animal	_____	6	_____
CHEM& 242, 252 Organic Chemistry II	_____	6	_____
CS& 131 Computer Science I C++	_____	5	_____
CS& 141 Computer Science I JAVA	_____	5	_____
ENGR& 204 Electrical Circuits	_____	5	_____
MATH& 254 Calculus IV	_____	5	_____
MATH 272 Linear Algebra	_____	5	_____
<b>Total Credits (minimum 100.5 credits)</b>			
			_____

## Distribution Requirements

### **A. Humanities**

American Sign Language	&121, &122, &123, &221, &222, &223
Arabic	121, 122, 123, 221, 222, 223
Art	&100, 111, 112, 113, 126, 127, 128, 129, 130, 155, 225, 255
Chinese Communications	&121, &122, &123, 101
Communication Studies	&101, &210, 215, &220, 225, &230, 235
Diversity Studies	157, 215, 257
Drama	&101
English	110, &111, 120, 125, 140, 141, 142, 151, 152, 155, 160, 161, 162, 165, 170, 171, 185, &220, &244, &245, &246, 255, 275, 276
French	&121, &122, &123, 210, &221, &222, &223,
German	&121, &122, &123, 220
Humanities	101, 105, 106, 108, 109, 120, 201, 202, 210, 220, 230, 235, 255
Japanese	&121, &122, &123, &221, &222, &223
Journalism	125, 126, 135, 225
Music	101, 102, 103, &105, 106, 107, 126, &141, &142, &143, &241, &242, &243
Philosophy	&101
Spanish	&121, &122, &123, &221, &222, &223, 230

### **Performance/Skills Courses**

Art	101, 102, 103, 150, 151, 152, 153, 170, 171, 172, 173, 175, 176, 177, 180, 181, 226
Drama	151, 152, 153, 251, 252, 253
Music	111, 112, 113, 114, 115, 116, 117, 118, 119, 133, 134, 135, 147, 148, 149, 160, 161, 162, 170, 171, 172, 173, 185, 186, 187, 211, 212, 213, 214, 215, 216, 217, 218, 219, 247, 248, 249, 260, 261, 262, 270, 271, 272, 273, 285, 286, 287
Photography	101, 102, 103

### **B. Social Sciences**

Anthropology	&100, &104, 130, 155, 201, 202, 203, &206, &210, &215, &216, 255, 271
Business	&101
Diversity Studies	100, 117, 118, 119, 125, 130, 150, 151, 156, 200, 256
Economics	130, 140, 150, 155, &201, &202, 255
Geography	&100, 130, 140, 150, 207
History	104, 105, 106, 111, 112, &116, &117, &118, &146, &147, &148, 155, &214, 215, 230, 246, 248, 255
International Studies	200, 201, 202
Philosophy	&101, &106, 110, 155, 198, 255, 267, 298
Political Science	&101, 155, &200, &201, &202, &203, &204, 206, 210, 220, 224, 255
Psychology	&100, &200, 208, &220, 290
Social Science	155, 255
Sociology	&101, 115, 118, 125, 130, 150, 200, &201, 214
Women's Studies	200