



Bioengineering and Chemical Pre-Engineering Pathway

Associate in Science Transfer Degree – Option 2

Major Related Program (AST-2/MRP)

Minimum of 90 Credits

Summer 2017

The Associate in Science Transfer-Option 2/Major Related Program in Bioengineering and Chemical Pre-Engineering degree encompasses some general education courses required of first- and second-year students and is intended to prepare students planning to transfer to a university in the science-related fields. It will give students the broad background needed before beginning more specialized, upper-division courses. The curriculum is not intended to fulfill General Education/University (GER/GUR) requirements, but to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete I04-I05 quarter credits in courses numbered I00 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with “Pass” grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits at Green River College. Students should include some 200-level classes in their course of study.

Students are responsible for knowing transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution for which they plan to transfer.

I. BASIC SKILLS (30 credits)

Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Science-Transfer Option 2 degree requirements.

A. Communication Skill (5 credits)

Courses in this area support the written communication learning outcome.

English &I01

B. Quantitative Skills/ Symbolic Reasoning (25 credits)

Courses in this area support the quantitative and symbolic reasoning learning outcome.

Mathematics &I51 &I52 &I53, 238 **and** &254

2. HUMANITIES and SOCIAL SCIENCE (15 credits)

Minimum 5 credits each from Humanities and Social Science area plus 5 additional credits in either area (for a total of 15 credits). Three separate areas.

A. Humanities

*A minimum of 5 credits from the following. No more than 5 credits in any one discipline. No more than 5 credits in performance/skills courses (**all courses in bold type**) can be applied towards Humanities distribution. No more than 5 credits in foreign language at the 100 level.*

Art &I00, **I05, I06, I07, I09, I10, I11, I12, I13, I14, I15, I19, 120, I30, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**

Chinese I11, &I21, &I22, &I23

Communication Studies &I02, &210, &220, 212, 213, 215, &230, 238, 245, 265, 266

Dance **I01, I02, I03, I10, 204**

Drama &I01, I02, **I11, I51, I52, I53, I54, I57, I58**

English &I12, &I13, &I14, I15, I60, I61, I63, I64, I65, I68, I80, I81, I83, I85, I87, I90, &220, &226, &227, &228, &236, &237, &244, &245, &246, 247, 248, 249, 250, 251, &254, &255, &256, 257, 264

Film 120, 121, 122, 191

French &I21, &I22, &I23, &221, &222, &223

German &I21, &I22, &I23

Humanities I00, I10, I33, I42, I46, I60, I86, I90, I91, 200, 224

Japanese &I21, &I22, &I23, &221, & 222, &223

Journalism I01, I07, 150, I51, I52, 254

Music I01, I03, I04, &I05, I07, I08, I09, I10, **I18, I19, I20, &I21, &I22, &I23, I24, I25, I27, I28, I29, &I31, &I32, &I33, I40, I41, I42, I50, I51, I52, 218, 219, 220, &221, &222, 227, 228, 229, &231, &232, 250, 251, 252**

Philosophy &I01, I02, I03, I04, I05, I08, I10, I11, I12, I14, &I15, I60, 200, 206, 210, 220, 236, 238, 240, 243

Photography **I01, I02, I03, I11**

Spanish I10, &I21, &I22, &I23, &221, &222, &223, 272

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Minimum of 90 Credits

B. Social Science

A course in Economics is recommended. A minimum of 5 credits from the following:

American Minority and Ethnic Studies 100, 103, 105, 150, 211

Anthropology &100, &104, 108, &204, &205, &206, &207, &210, 211, &216, 220, &234, &235, &236, 273

Business Management &101, 181, &201

Criminal Justice &101, &105, &110, &240

Economics 100, 101, &201, &202

Geography &100, 120, 123, 190, &200, 201, 205, 210

History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250

Political Science &101, &200, &202, &203, &204, 207, 209, 220

Psychology &100, &180, &200, 201, 209, &220, 225, 240, 250

Social Science 160, 211

Sociology &101, &201, 202, 205, 214, 215, 220, 230, 240, 245, 260, 271

3. SPECIFIC REQUIREMENTS (57-58 credits)

It is strongly suggested that students beginning their science sequence complete it at the originating college.

A. **Physics** &221, &222 **and** &223 (15 credits)

B. **Chemistry** &161, &162, &163 **and** &261 (24 credits)

C. **Biology** &160 **or** **Chemistry** &262 (5-6 credits)

D. *Select at least 13 credits from the following list after consultation with an engineering advisor.*

Biology &100 **or** higher

Chemistry &263*

Computer Science 120, &131, 132, &141, **or** 145

Engineering 100, 120, &204, &224, 250

Mathematics 240

* *An online course in chemical process, principles, and calculations will be added to this degree in the future.*

TRANSFERABILITY OF CREDITS

Green River College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

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Planning Guide (9990)

1. BASIC SKILLS (35 credits)	3. SPECIFIC REQUIREMENTS (59 credits)
ENGL& 101 _____ (5)	A. PHYS& 221 _____ (5)
MATH& 151 _____ (5)	PHYS& 222 _____ (5)
MATH& 152 _____ (5)	PHYS& 223 _____ (5)
MATH& 153 _____ (5)	B. CHEM& 161 _____ (6)
MATH 238 _____ (5)	CHEM& 162 _____ (6)
MATH 254 _____ (5)	CHEM& 163 _____ (6)
	CHEM& 261 _____ (6)
	C. BIOL& 160 <u>or</u> CHEM& 262 _____ (5-6)
2. HUMANITIES and SOCIAL SCIENCE (15 credits)	D. <i>Select 13 credits from the following after consultation with a Science/Engineering Advisor:</i>
<i>With at least 5 credits from each. Three separate areas</i>	BIOL& 100 <u>or</u> higher; CHEM& 263; CS/ENGR 120, CS& 131, 132, &141, 145, ENGR 100, 120, &204, &224, 250; MATH 240;
A. Humanities (5 credits) _____ (5)	_____
B. Social Science (5 credits) _____ (5)	_____
C. Humanities or Social Science (5 credits) _____ (5)	_____

SUMMER		FALL		WINTER		SPRING	
COURSE	Credits	COURSE	Credits	COURSE	Credits	COURSE	Credits
Total Credits		Total Credits		Total Credits		Total Credits	
SUMMER	FALL		WINTER		SPRING		
COURSE	Credits	COURSE	Credits	COURSE	Credits	COURSE	Credits
Total Credits		Total Credits		Total Credits		Total Credits	
SUMMER	FALL		WINTER		SPRING		
COURSE	Credits	COURSE	Credits	COURSE	Credits	COURSE	Credits
Total Credits		Total Credits		Total Credits		Total Credits	

NOTES:

1. Students must maintain a minimum overall GPA of 2.0. This minimum may not meet the entrance requirements at a four-year college.
2. Some majors at a four-year college have special requirements. It is the student's responsibility to know these. Consult an Educational Planner or your Faculty Advisor for assistance in identifying or researching specific major requirements.