Edmonds Community College
Suggested courses for pre-engineering majors (AST2) for transfer to Washington State University, Pullman campus

Sections in this document refer to sections of the AST2 degree program found at: http://www.sbctc.edu/college/_e-transferassocinscience.aspx

Note: Please consult with an academic advisor to determine which of the following courses are appropriate for AST2 degree completion in your particular area of interest.

Core Courses required for AST2:

A. Communication Skills
ENGL& 101 English Composition I

B. Mathematics
MATH& 151 Calculus I
MATH& 152 Calculus II

C. Humanities and Social Science
ECON& 202 Macro Economics
ANTH& 100 Survey of Anthropology
Humanities Elective [HA]

D. Pre-major Program
MATH& 153 Calculus III
PHYS& 241/231 Engineering Physics I w/ Lab
PHYS& 242/232 Engineering Physics II w/ Lab
PHYS& 243/233 Engineering Physics III w/ Lab
CHEM& 141/151 General Chemistry I w/ Lab

E. Remaining Credits

Elective Requirements for All Pathways (15 credits recommended for all pathways):
ENGR 231 Introduction to Technical Writing
MATH& 254 Calculus IV
MATH 271 Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
CHEM& 142/152 General Chemistry II w/ Lab
CHEM& 143/153 General Chemistry III w/ Lab
CHEM& 241/251 Organic Chemistry I w/ Lab
CHEM& 242/252 Organic Chemistry II w/ Lab
CHEM& 243/253 Organic Chemistry III w/ Lab
MATH 272 Linear Algebra
BIOL& 211               Majors Cellular (for BE Pathway)

**Comp E and EE Pathway (select at least 20 credits from this list):**
CHEM& 142/152 General Chemistry II w/ Lab
MATH 272          Linear Algebra
ENGR& 214         Statics (for EE pathway)
CS 142 and 143     Computer Science III C++
*The CS 132/133 series provides good preparation for WSU computer science classes, but is not necessarily transferrable for credit. Check with a WSU academic advisor for more info.*

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**
MATH 272          Linear Algebra
BIOL& 260         Microbiology (for CE pathway)
CHEM& 142/152 General Chemistry II w/ Lab
CHEM& 143/153 General Chemistry III w/ Lab (for MSE pathway)
ENGR& 104         Introduction to Design
ENGR& 114         Engineering Graphics
ENGR& 214         Statics
ENGR& 215         Dynamics
ENGR& 225         Mechanics of Materials
ENGR 240         Applied Numerical Methods
CMST& 220        Public Speaking (for CE pathway)*
CMST& 230        Small Group Communication (for CE pathway)*
*Only one of CMST& 220 or CMST& 230 needed for CE pathway*

This document is accurate as of October, 2016. The latest version can be found at [www.vcea.wsu.edu/transferstudents](http://www.vcea.wsu.edu/transferstudents)

For general questions about this document or to report an error, please contact Kasey Schertenleib at [kasey@wsu.edu](mailto:kasey@wsu.edu) or 509-335-6613.
Advantages of the AST2 Degree When Transferring to WSU

- Courses designated [H]-Humanities and [S]-Social Science by your Community College are accepted as [HUM] and [SSCI] by WSU.
- [BIOL]-Biological Science UCORE Requirement is waived by WSU if your degree program does not require Biology.

WSU Writing Portfolio

At WSU, completion of the Junior Writing Portfolio is a General Education Requirement for graduation. Transfer students entering with 60 or more credits must initiate the Junior Writing Portfolio by the end of their first semester at WSU. To this end, you should save examples of writing from coursework completed at your Community College. Instructor sign-off is required. For more information, please visit:

www.writingprogram.wsu.edu/units/writingassessment/midcollege/writingportfolio/

Alternative Options for Obtaining WSU Engineering Credits

- Check with neighboring Colleges to see if alternative engineering electives are available which are transferable to WSU.
- Consider enrolling in a distance education course through Washington Online.  
  http://www.waol.org
- Consider enrolling in WSU Summer Session courses prior to Fall enrollment.
  http://www.summer.wsu.edu/

For specific questions regarding transfer equivalencies, please contact one of the WSU academic coordinators listed below:

School of Bioengineering and Chemical Engineering
Maria Greaney-Curry  
509-335-1041  
mgreaney@wsu.edu

Department of Civil and Environmental Engineering
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John Rarig  
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509-335-1219  
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School of Electrical Engineering and Computer Science
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Alli Guyer  
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School of Mechanical and Materials Engineering
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509-335-8582  
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Distance Degree Programs in Bremerton/Everett
Linda Howell  
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