Bellevue 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 Macroeconomics
ANTH& 100 Survey of Anthropology
Humanities Elective [HA]

D. Pre-major Program
MATH& 153 Calculus III
PHYS 121 General Engineering Physics I
PHYS 122 General Engineering Physics II
PHYS 123 General Engineering Physics III
CHEM& 161 General Chemistry I

E. Remaining Credits
Pathways described below correspond to the major related pathways (MRPs) defined at:
http://www.sbctc.edu/docs/education/transfer/2008-as-t_track2_engr_compsci_physics_atmossci.pdf

Elective Requirements for All Pathways (15 credits recommended for all pathways):
ENGL& 235 Technical Writing
MATH& 254 Calculus IV
MATH 238 Differential Equations

BIO and CHEM E Pathway (select at least 20 credits from this list):
CHEM& 162 General Chemistry II
CHEM& 163 General Chemistry III
CHEM& 261 Organic Chemistry I
CHEM& 262 Organic Chemistry II
CHEM& 263 Organic Chemistry III
BIOL& 211 Biology Majors I (for BE pathway)
MATH 208 Linear Algebra (for BE Pathway)
ENGR& 204  Electrical Circuits
ENGR& 224  Thermodynamics

**Comp E and EE Pathway:**
CHEM& 162  General Chemistry II
MATH 208  Introduction to Linear Algebra
CS 210  Fundamentals of Computer Science I
CS 211  Fundamentals of Computer Science II
ENGR& 204  Electrical Circuits
ENGR& 214  Statics (for EE pathway)
ENGR& 224  Thermodynamics

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**
MATH 208  Introduction to Linear Algebra
CHEM& 162  General Chemistry II
CHEM& 163  General Chemistry III (for MSE pathway)
BIOL& 260  Microbiology (for CE pathway)
CS 210  Fundamentals of Computer Science I

ENGR& 204  Electrical Circuits*
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 224  Thermodynamics*
ENGR& 225  Mechanics of Materials
*(Only one of ENGR& 204 or ENGR& 224 needed for CE pathway)*
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, may also fulfill requirement in section C)**

This document is accurate as of February 23, 2016. The latest version can be found at [www.cea.wsu.edu/transferstudents](http://www.cea.wsu.edu/transferstudents)

For general questions about this document or to report an error, please contact Kasey Schertenleib at 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/](http://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.

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
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**Department of Civil and Environmental Engineering**
Kelli Gardner-Schrand and John Rarig
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**School of Electrical Engineering and Computer Science**
Josh Whiting
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**School of Mechanical and Materials Engineering**
Pullman Campus
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