**Everett Community College**  
Suggested Courses for Pre-engineering Majors (AST2) For Transfer to  
Washington State University, Pullman Campus

As of fall 2012, WSU offers a Mechanical Engineering program on the Everett Community College Campus. For more information, please contact Linda Howell at linda.howell@wsu.edu or 509-335-2483.

Sections in this document refer to sections of the AST2 degree program found at:  
http://www.sbctc.edu/college/_etransferassocinscience.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 116  
Cultures in Context
Humanities Elective [HA]

#### D. Pre-major Program
MATH& 163  
Calculus 3
PHYS& 241  
Engineering Physics I
PHYS& 231  
Engineering Physics I Laboratory
PHYS& 2242  
Engineering Physics II
PHYS& 232  
Engineering Physics II Laboratory
PHYS& 243  
Engineering Physics III
PHYS& 233  
Engineering Physics III Laboratory
CHEM& 161  
General Chemistry w/ Lab 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_atmossi.pdf

**Elective Requirements for All Pathways (15 credits recommended for all pathways):**

ENGL& 230  
Technical Writing
MATH& 264  
Calculus IV
MATH 261  
Differential Equations

**BIO and CHEM E Pathway (select at least 20 credits from this list):**

CHEM& 162  
General Chemistry w/ Lab II
CHEM& 163  
General Chemistry w/ Lab III
CHEM& 261  
Organic Chemistry w/ Lab I
CHEM& 262  
Organic Chemistry w/ Lab II
CHEM& 263  
Organic Chemistry w/ Lab III
BIOL& 222  
Majors Cell/Molecular

MATH 260  
Linear Algebra (for BE Pathway)
ENGR& 214  Statics (for BE pathway; Elective for ChE)
ENGR& 204  Electrical Circuits
ENGR& 215  Dynamics (Electives for both)
ENGR& 224  Thermodynamics (Electives for both)

**Comp E and EE Pathway (select at least 20 credits from this list):**
CHEM& 162  General Chemistry w/ Lab II
MATH 260  Linear Algebra
ENGR& 204  Electrical Circuits
ENGR& 214  Statics (for EE pathway)
ENGR& 224  Thermodynamics (for EE pathway)
CS& 131  Computer Science I C++ *
*CS& 131 provides good background preparation for WSU computer science classes, but is not 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 260  Linear Algebra
BIOL& 260  Microbiology (for CE pathway)
CHEM& 162  General Chemistry w/ Lab II
CHEM& 163  General Chemistry w/ Lab III (for MSE pathway)
ENGR 240  Applied Numerical Methods (for MSE, ME, and CE pathways)
ENGR& 114  Engineering Graphics (for ME pathway)
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

This document is accurate as of February 23, 2016. The latest version can be found at 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/

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 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
Kelli Gardner-Schrand and John Rarig
509-335-6933
509-335-1219
k.gardner-schrand@wsu.edu
jrarig@wsu.edu

School of Electrical Engineering and Computer Science
Josh Whiting
509-335-2446
joshwhiting@wsu.edu

School of Mechanical and Materials Engineering
Pullman Campus
Priscilla Hastay
509-335-8582
hastay@wsu.edu

Bremerton/Everett
Linda Howell
509-335-2483
linda.howell@wsu.edu