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

For more information on the Mechanical Engineering Degree program at WSU-Bremerton, please contact Dr. Marvin Pitts at pitts@wsu.edu or 360-475-7543

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& 163 Calculus 3
PHYS 254 Engineering Physics
PHYS 255 Engineering Physics
PHYS 256 Engineering Physics
CHEM& 141/151 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_physcics_atmosscl.pdf

Elective Requirements for All Pathways (15 credits recommended for all pathways):
MATH& 264 Calculus 4
MATH 221 Differential Equations I
ENGL& 235 Technical Writing

BIO and CHEM E Pathway (select at least 20 credits from this list):
CHEM& 142/152 General Chemistry w/ Lab II
CHEM& 143/153 General Chemistry w/ Lab III
CHEM& 241/251 Organic Chem w/ Lab I
CHEM& 242/252 Organic Chem w/ Lab II
CHEM& 243/253 Organic Chem w/ Lab III
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)

MATH 250  Linear Algebra (for BE Pathway)

Comp E and EE Pathway (select at least 20 credits from this list):
CHEM& 142/152  General Chemistry w/ Lab II

MATH 250  Linear Algebra
ENGR& 204  Electrical Circuits
ENGR& 214  Statics (for EE pathway)
ENGR& 224  Thermodynamics (for EE pathway)
CIS 145  Introduction to C Language
CIS 200  Programming Laboratory

Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):
MATH 250  Linear Algebra
BIOL& 260  Microbiology (for CE pathway)
CS& 141  Computer Science I Java (for MSE and ME pathways)
CHEM& 142/152  General Chemistry w/ Lab II
CHEM& 143/153  General Chemistry w/ Lab III (for MSE pathway)
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 225  Mechanics of Materials
ENGR& 204  Electrical Circuits*
ENGR& 224  Thermodynamics*
ENGR 240  Applied Numerical Methods for Engineering (for MSE, ME, or CE pathways)
*(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 509-335-66
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
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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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