Clark 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/ _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& 206 Introduction to Cultural Anthropology
Humanities Elective [HA]

D. Pre-major Program
MATH& 153 Calculus III
PHYS& 241 Engineering Physics I
PHYS& 242 Engineering Physics II
PHYS& 243 Engineering Physics III
CHEM& 141 General Chemistry I
CHEM& 151 General Chem 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_atmossci.pdf

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

ENGL& 235 Technical Writing
MATH& 254 Calculus IV
MATH 221 Differential Equations
**BIO and CHEM E Pathway (select at least 20 credits from this list):**

CHEM& 142  General Chemistry II  
CHEM& 152  General Chem Lab II  
CHEM& 143  General Chemistry III  
CHEM& 153  General Chem Lab III  
CHEM& 241  Organic Chemistry I  
CHEM& 242  Organic Chemistry II  
CHEM& 243  Organic Chemistry III  
CHEM& 251  Organic Chem Lab I  
CHEM& 252  Organic Chem Lab II  

BIOL& 222  Majors Cell/Molecular (for BE pathway)  
MATH 215  Linear Algebra (for BE Pathway)  
ENGR& 224  Thermodynamics  

**Comp E and EE Pathway (select at least 20 credits from this list):**

CHEM& 142  General Chemistry II  
CHEM& 152  General Chem Lab II  

MATH 215  Linear Algebra  

ENGR& 214  Statics (for EE pathway)  
ENGR& 224  Thermodynamics  

PHIL& 120  Symbolic Logic  
CSE 121  Introduction to C  
CSE 222  Introduction to Data Structures  
CSE 223  Data Structures and Object-Oriented Programming  
CSE 224  Programming Tools  

**Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 20 credits from this list):**

MATH 215  Linear Algebra  

BIOL& 260  Microbiology (for CE pathway)  

CHEM& 142  General Chemistry II  
CHEM& 152  General Chem Lab II  
CHEM& 143  General Chemistry III (for MSE pathway)  
CHEM& 153  General Chem Lab III (for MSE pathway)  

ENGR 101  Innovation in Design  
ENGR 150  Basic Solidworks (for ME pathway)
ENGR& 214  Statics
ENGR& 215  Dynamics
ENGR& 224  Thermodynamics*
ENGR& 225  Mechanics of Materials

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 October, 2016. The latest version can be found at www.vcea.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 a distance education course through Washington Online. https://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**
Kelli Gardner-Schrand
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John Rarig
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**School of Electrical Engineering and Computer Science**
Josh Whiting
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Alli Guyer
509-335-0636
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**School of Mechanical and Materials Engineering**
Debi Mundell
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Paul Veridian
509-335-8582
paul.veridian@wsu.edu

**Distance Degree Programs in Bremerton/Everett**
Linda Howell
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linda.howell@wsu.edu