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/_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& 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
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Department of Civil and Environmental Engineering
Kelli Gardner-Schrand
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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
Debi Mundell
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Paul Veridian
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Distance Degree Programs in Bremerton/Everett
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