Yakima Valley Community 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& 100 Survey of Anthropology
Humanities Elective [HA]

D. Pre-major Program
MATH& 153 Calculus III
PHYS 211/221 Engineering Physics w/ lab I
PHYS 212/222 Engineering Physics w/ lab II
PHYS 213/223 Engineering Physics w/ lab III
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_physics_atmossci.pdf

Elective Requirements for All Pathways (10 credits recommended for all pathways):

MATH& 254 Calculus IV
MATH 264 Differential Equations

BIO and CHEM E Pathway (select at least 25 credits from this list):

CHEM& 142/152 General Chemistry w/ Lab II
CHEM& 143/153 General Chemistry w/ Lab III
CHEM& 241/251 Organic Chemistry w/ Lab I
CHEM& 242/252 Organic Chemistry w/ Lab II
CHEM& 243 Organic Chemistry III
MATH 220 Linear Algebra (for BE Pathway)

Comp E and EE Pathway:

CHEM& 142/152 General Chemistry w/ Lab II
MATH 220 Linear Algebra
ENGR& 214 Statics (for EE pathway)
IT 174 C++ Introduction (Good for background preparation, but will not substitute as CptS 121 at WSU)

Mechanical, Civil, Materials Science, and Other Engineering Pathway (select at least 25 credits from this list):

MATH 220 Linear Algebra
BIOL 232 Microbiology (for CE pathway)
CHEM& 142/152 General Chemistry w/ Lab II
CHEM& 143/153 General Chemistry w/ Lab III (for MSE pathway)
ENGR 100 Introduction to Engineering
ENGR& 114 Engineering Computer Aided Design & Visualization (for ME pathway)
ENGR& 214 Statics
ENGR& 215 Dynamics
ENGR& 225 Mechanics of Materials
CMST& 220 Public Speaking (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 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  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  Alli Guyer
509-335-2446  509-335-0636
joshwhiting@wsu.edu  alliguyer@wsu.edu

School of Mechanical and Materials Engineering
Debi Mundell  Paul Veridian
509-335-7386  509-335-8582
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Distance Degree Programs in Bremerton/Everett
Linda Howell
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