

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_atmossoci.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 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
509-335-1041
mgreaney@wsu.edu

Department of Civil and Environmental Engineering

Kelli Gardner-Schrand 509-335-6933 k.gardner-schrand@wsu.edu	John Rarig 509-335-1219 jrarig@wsu.edu
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School of Electrical Engineering and Computer Science

Josh Whiting 509-335-2446 joshwhiting@wsu.edu	Alli Guyer 509- 335-0636 alliguyer@wsu.edu
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School of Mechanical and Materials Engineering

Debi Mundell 509-335-7386 debi.mundell@wsu.edu	Paul Veridian 509-335-8582 paul.veridian@wsu.edu
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Distance Degree Programs in Bremerton/Everett

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

