

# Columbia Basin 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 [H]

#### **D. Pre-major Program**

MATH& 153            Calculus III

PHYS& 241            Engineering Physics I

PHYS& 231            Engineering Physics I Laboratory

PHYS& 242            Engineering Physics II

PHYS& 232            Engineering Physics II Laboratory

PHYS& 243            Engineering Physics III

PHYS& 233            Engineering Physics III Laboratory

CHEM& 161            General Chemistry I w/ Lab

#### **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](http://www.sbctc.edu/docs/education/transfer/2008-as-t_track2_engr_compsci_physics_atmossoci.pdf)

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

ENGL& 235            Technical Writing

MATH& 254            Calculus IV

MATH 255            Differential Equations

### **BIO and CHEM E Pathway (select at least 20 credits from this list):**

CHEM& 162            General Chemistry II w/ Lab

CHEM& 163            General Chemistry III w/ Lab

CHEM& 241            Organic Chemistry I w/ Lab

CHEM& 242            Organic Chemistry II w/ Lab

CHEM& 243	Organic Chemistry III w/ Lab
MATH 243	Linear Algebra (for BE pathway)
BIOL& 211	Majors Cellular w/Lab (for BE pathway)

**Comp E and EE Pathway:**

CHEM& 162	General Chemistry II w/ Lab
MATH 243	Linear Algebra
ENGR& 214	Statics (for EE pathway)
C S& 131	Computer Science I C++
CS 162	C++2
CS 260	Data Structures in C++

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

MATH 243	Linear Algebra
BIOL& 260	Microbiology w/Lab (for CE pathway)
CHEM& 162	General Chemistry II w/ Lab
CHEM& 163	General Chemistry III w/ Lab (for MSE pathway)
ENGR& 214	Statics
ENGR& 215	Dynamics
CS& 131	Computer Science I C++ (for ME pathway)
CMST& 220	Public Speaking (for CE pathway)*

**This document is accurate as of October, 2016. The latest version can be found at [www.vcea.wsu.edu/transferstudents](http://www.vcea.wsu.edu/transferstudents)**

**For general questions about this document or to report an error, please contact Kasey Schertenleib at [kasey@wsu.edu](mailto: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/](http://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.

**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](mailto:mgreaney@wsu.edu)

#### **Department of Civil and Environmental Engineering**

Kelli Gardner-Schrand	John Rarig
509-335-6933	509-335-1219
<a href="mailto:k.gardner-schrand@wsu.edu">k.gardner-schrand@wsu.edu</a>	<a href="mailto:jrarig@wsu.edu">jrarig@wsu.edu</a>

#### **School of Electrical Engineering and Computer Science**

Josh Whiting	Alli Guyer
509-335-2446	509-335-0636
<a href="mailto:joshwhiting@wsu.edu">joshwhiting@wsu.edu</a>	<a href="mailto:alliguyer@wsu.edu">alliguyer@wsu.edu</a>

#### **School of Mechanical and Materials Engineering**

Debi Mundell	Paul Veridian
509-335-7386	509-335-8582
<a href="mailto:debi.mundell@wsu.edu">debi.mundell@wsu.edu</a>	<a href="mailto:paul.veridian@wsu.edu">paul.veridian@wsu.edu</a>

#### **Distance Degree Programs in Bremerton/Everett**

Linda Howell  
509-335-2483  
[linda.howell@wsu.edu](mailto:linda.howell@wsu.edu)