

# Spokane Falls 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 201            Engineering Physics I

PHYS 202            Engineering Physics II

PHYS 203            Engineering Physics III

CHEM& 161            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](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):**

MATH& 254            Calculus IV

MATH 274            Elementary Differential Equations

ENGL& 235            Technical Writing

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

CHEM& 162            General Chemistry w/ Lab II

CHEM& 163            General Chemistry w/ Lab III

CHEM& 241/251        Organic Chem w/ Lab I

CHEM& 242/252        Organic Chem w/ Lab II

CHEM& 243/253        Organic Chem w/ Lab III

ENGR 210            Electric Circuit Theory (for BE pathway)

MATH 220 Elementary Linear Algebra (for BE Pathway)

**Comp E and EE Pathway:**

MATH 220 Elementary Linear Algebra

ENGR 190 Electronic Logic

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

MATH 220 Elementary Linear Algebra

BIOL& 260 Microbiology (for CE pathway)

CHEM& 162 General Chemistry w/ Lab II

CHEM& 163 General Chemistry w/ Lab III (for MSE pathway)

CS 255 C for Engineers

ENGR 201 Statics

ENGR 202 Dynamics

ENGR 203 Mechanics of Materials

ENGR 210 Electric Circuit Theory

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 February 23, 2016. The latest version can be found at [www.cea.wsu.edu/transferstudents](http://www.cea.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.  
<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](mailto:mgreaney@wsu.edu)

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

Kelli Gardner-Schrand and John Rarig  
509-335-6933  
509-335-1219  
[k.gardner-schrand@wsu.edu](mailto:k.gardner-schrand@wsu.edu)  
[jrarig@wsu.edu](mailto:jrarig@wsu.edu)

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

Josh Whiting  
509-335-2446  
[joshwhiting@wsu.edu](mailto:joshwhiting@wsu.edu)

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

Pullman Campus	Bremerton/Everett
Priscilla Hastay	Linda Howell
509-335-8582	509-335-2483
<a href="mailto:hastay@wsu.edu">hastay@wsu.edu</a>	<a href="mailto:linda.howell@wsu.edu">linda.howell@wsu.edu</a>