

# Wenatchee Valley 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

Humanities Elective [HA]

Humanities or Social Science Elective [SS]

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

MATH&153            Calculus III

PHYS&221            Engineering Physics I

PHYS&222            Engineering Physics II

PHYS&223            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/college/transfer/as t track2 engr pathways As Proposed.doc>

### **Elective Requirements for All Pathways (10-20 credits recommended for all pathways):**

MATH&254            Calculus IV

MATH 238            Differential Equations

ENGL&235            Technical Writing (May be available through [www.washingtononline.org](http://www.washingtononline.org))

ENGR&204            Electrical Circuits (May be available through [www.washingtononline.org](http://www.washingtononline.org))

### **BIO and CHEM E Pathway:**

CHEM&162            General Chemistry w/ Lab II

CHEM&163            General Chemistry w/ Lab III

BIOL&211            Majors Cellular (for BE pathway)

MATH 211            Linear Algebra (for BE Pathway)

**Comp E and EE Pathway:**

CHEM&162            General Chemistry w/ Lab II

MATH 211            Linear Algebra

ENGR 211            Statics (for EE pathway)

**Mechanical, Civil, Materials Science, and Other Engineering Pathway:**

MATH 211            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)

ENGR 211            Statics

ENGR 212            Dynamics

CMPSC 143            C++ Programming II (May be available through [www.washingtononline.org](http://www.washingtononline.org))

CMST&220            Public Speaking (for CE pathway)

**This document is accurate as of October 15, 2010. The latest version can be found at [www.cea.wsu.edu/transfersstudents](http://www.cea.wsu.edu/transfersstudents)**

**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**

- No need to take Gen Ed 110 and 111 for the WSU General Education program.
- Courses designated [H]-Humanities and [S]-Social Science by your Community College are accepted as [H] and [S] by WSU.
- [B]-Biological Science General Education Requirement (GER) 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.washingtononline.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**

Senja Estes  
509-335-4332  
[sestes@wsu.edu](mailto:sestes@wsu.edu)

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

Brooke Whiting  
509-335-1219  
[bwhiting@wsu.edu](mailto:bwhiting@wsu.edu)

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

Patricia Arnold  
509-335-2446  
[newcoug@eecs.wsu.edu](mailto:newcoug@eecs.wsu.edu)

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

Shanna Pumphrey  
509-335-2727  
[newcoug@mme.wsu.edu](mailto:newcoug@mme.wsu.edu)