

**BRIDGES, Coordinated Bachelor's Degree Program    2011 – 2012 Plan of Study**

**B.S. in Mechanical Engineering**

**Direct Bachelor's Option**

This guide has been prepared for students seeking a **Bachelor of Science in Mechanical Engineering**, beginning at Columbia Basin College and finishing at Washington State University Tri-Cities. The guide allows students to meet WSU General Education Requirements (GERs) and departmental-specific requirements in the WSU catalog. **This Plan of Study is intended as a guide for both students and counselors/advisors to use together. This is a suggested outline and can be tailored to an individual student's needs.**

**2 Year Plan**

**Year One** *(CBC Courses and credits)*

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**Fall Quarter** *(20 credits)*

- \_\_\_\_\_ ENGL& 101<sup>1</sup> – English Composition I [W]
- \_\_\_\_\_ MATH& 151<sup>1</sup> – Calculus I [N]
- \_\_\_\_\_ CHEM& 161<sup>1</sup> – General Chemistry I w/ lab
- \_\_\_\_\_ Arts/Humanities Elective<sup>2</sup> [H,G]

**Winter Quarter** *(20 credits)*

- \_\_\_\_\_ MATH& 152<sup>1</sup> – Calculus II [N]
- \_\_\_\_\_ CHEM& 162 – General Chemistry II w/ lab [P]
- \_\_\_\_\_ CS& 131<sup>1</sup> – Computer Science I C++
- \_\_\_\_\_ HIST& 126, 127 or 128 – World Civilization series (choose one) [A]

**Spring Quarter** *(20 credits)*

- \_\_\_\_\_ MATH& 153<sup>1</sup> – Calculus III [N]
- \_\_\_\_\_ Biological Science w/ lab<sup>2</sup> [B]
- \_\_\_\_\_ ECON& 202 – Macro Economics [S]
- \_\_\_\_\_ Intercultural Studies<sup>2</sup> [I,G,K]

**Year Two** *(CBC Courses and credits)*

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**Fall Quarter** *(15 credits)*

- \_\_\_\_\_ MATH& 254<sup>1</sup> – Calculus IV
- \_\_\_\_\_ PHYS& 221, 231<sup>1</sup> – Engineering Physics I w/ lab
- \_\_\_\_\_ HIST& 126, 127 or 128 – World Civilization series (choose one) [A]

**Winter Quarter** *(15 credits)*

- \_\_\_\_\_ MATH 243 – Linear Algebra
- \_\_\_\_\_ PHYS& 222, 232<sup>1</sup> – Engineering Physics II w/ lab
- \_\_\_\_\_ ENGR& 214<sup>1</sup> – Statics

**Spring Quarter** *(20 credits)*

- \_\_\_\_\_ PHYS& 223, 233 – Engineering Physics III w/ lab
- \_\_\_\_\_ MATH& 255 – Differential Equations
- \_\_\_\_\_ ENGR& 215 – Dynamics
- \_\_\_\_\_ ENT 272, 2721<sup>1</sup> – Advanced 3-D w/ lab

**Total Number of Credits: 110** (Additional prerequisite or proficiency courses may be required)

**Endnote Explanations**

1. These courses are required for certification into the BSME program and must be passed with a grade of C (2.0 grade point average) or better.
2. Choose courses from Columbia Basin College's AA Direct Transfer Agreement listing.