Eastern Washington University (EWU) and the College of Engineering and Architecture at Washington State University (WSU) agree to participation in a Dual Degree Program as outlined below. Students following this Program complete three years of study at EWU followed by two years at WSU, leading to a EWU Baccalaureate degree and a WSU Bachelor of Science in an Engineering discipline. WSU degrees included are, Bioengineering (BE), Chemical Engineering (ChE), Civil Engineering (CE), Computer Engineering (CPTE), Electrical Engineering (EE), Materials Science and Engineering (MSE), and Mechanical Engineering (ME).

Each Institution will designate a Liaison Officer whose duties will be to keep each other informed of changes in personnel, procedures and requirements which affect the Program and to provide a point of contact for students seeking information and advice relative to the Program. The effective date of this program is October 1, 2004, and will be reviewed every five years by both Eastern Washington University and Washington State University.

Students should complete the following coursework as part of their general graduation requirements at Eastern Washington University to prepare for transfer to Washington State University and entrance into an Engineering Baccalaureate Degree Program.

Mathematics: 29 Credits
- MATH 161 Calculus I (5)
- MATH 162 Calculus II (5)
- MATH 163 Calculus III (5)
- MATH 241 Calculus IV (5)
- MATH 231 Linear Algebra (5), (except Chemical Engineering)
- MATH 347 Introductory Differential Equations (4)

Physics: 15 Credits
- PHYS 151 General Physics I (4) PHYS 152
  General Physics II (4) PHYS 153 General
  Physics III (4) PHYS 161 Mechanics Lab
  (1) PHYS 162 Heat and Optics Lab (1)
  PHYS 163 Instrumentation Laboratory I (1)
Chemistry: 15 Credits (Electrical and Computer Engineering need only CHEM 151)
CHEM 151 General Chemistry I (5) CHEM 152 General Chemistry II (5) CHEM 153 General Chemistry III (5) Lab is included in the Chemistry courses listed above.

Engineering:
ENGR 240 Statics (4), (except Chemical and Computer Engineering)

Computer Science: (except Bioengineering and Chemical Engineering)
CSCD 229 C Programming Language (3) CSCD 209 C Programming Lab (2)

Economics:
ECON 201 Introduction to Macroeconomics (5)

Students participating in the Dual Degree Program who complete the general graduation requirements for EWU prior to or concurrently with WSU graduation, are considered to have completed the general education requirement at WSU with the following stipulations:

1. A Tier III Humanities or Social Sciences Capstone course at WSU will be required.
2. Completion of the WSU Writing Portfolio is required. Completing the portfolio involves submitting three papers from previous classes plus two timed and proctored writing exercises.

Additional program specific comments are listed below:

1. Bio Engineering (BE)
   Additional Requirements:
   BIOL 171 Biology I (4) BIOL 172 Biology II (4) BIOL 173 Biology III (4) CHEM 351 Organic Chemistry (4) CHEM 372 Organic Chemistry Lab (3)

2. Chemical Engineering (ChE)
   Additional Requirements:
   BIOL 171 Biology I (4) BIOL 173 Biology III (4) MATH 385 Probability and an Introduction to Statistics (4) CHEM 351, 352 Organic Chemistry (4 each) CHEM 372 Organic Chemistry Lab (3)
   Possible Additions:
   CHEM 421 Physical Chemistry (4) & CHEM 431 Physical Chem Lab (1) Or PHYS 411 Thermodynamics (3)
3. Civil Engineering (CE)
   Additional Requirements:
   - BIOL 171 Biology I (4)
   - BIOL 173 Biology III (4)
   - MATH 385 Probability and an Introduction to Statistics (4)
   - ENGR 110 Engineering Graphics (5)
   - + TECH 317 Computer aided Drafting (4)
   - ENGR 242 Dynamics (4)
   - ENGR 241 Strength of Materials (4)

4. Computer Engineering (CPTE)
   Additional Requirements:
   - CSCD 225 Programming Principles I (5)
   - CSCD 226 Programming Principles II (5)
   - CSCD 326 Data Structures I (4)
   - Math 225 Foundations of Mathematics (5) or
     MATH 301 Discrete Mathematics (5)
   - ENGR 160 (4) Digital Circuits + ENGR 250 (2) Digital Hardware

5. Electrical Engineering (EE)
   Additional Requirements
   - CSCD 225 Programming Principles I (5)
   - CSCD 226 Programming Principles II (5)
   - CSCD 326 Data Structures I (4)
   - ENGR 160 (4) Digital Circuits + ENGR 250 (2) Digital Hardware

   Possible Additions:
   - MATH 385 Probability and an Introduction to Statistics (4)
   - PHYS 221 General Physics 4 + PHYS 164 Instrumentation Lab II
   - PHYS 401 Electromagnetism I (4) PHYS 402 Electromagnetism II (4)

   NOTE: Strongly suggest taking EE 261 & 262 at WSU in Summer Session prior to fall semester WSU enrollment unless EWU develops a calculus based circuits course.

6. Materials Science and Engineering (MSE)
   Additional Requirements:
   - CHEM 351 Organic Chemistry (4)
   - CHEM 372 Organic Chemistry Lab (3)
7. Mechanical Engineering (ME)
   Possible Addition:
   MATH 385 Probability and an Introduction to Statistics (4)
   ENGR 110 Engineering Graphics (5) +
   TECH 317 Computer Aided Drafting (4)
   ENGR 242 Dynamics (4) ENGR 241
   Strength of Materials (4) PHYS 411
   Thermodynamics (3)

Students successfully completing the listed prerequisites will have reasonable assurance of certification into the Bachelor of Science engineering program of their choice. In the event that overall applications exceed the capacity of the program, a students' grade point average and advisor recommendations will be primary considerations in certification decisions.

In some cases, pre-requisite sequences or course availability may necessitate an additional semester or summer session at WSU. A student can minimize this possibility by consulting an advisor in the specific degree-granting department as early as possible. This will also assure that the unique requirements of the specific degree are understood as early as possible. The WSU Liaison Officer can direct students to the appropriate departmental advisor.