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|--|--|--|--|--|--|
| <b>Required for<br/>USU Major</b>            | <b>Articulation of Pre-engineering Courses</b><br>between<br><b>Weber State</b><br>and<br><b>Utah State University</b><br>current as of: 6/17/2011 |  |  |  |  |
| <b>B</b><br><b>I</b><br><b>E</b><br><b>N</b> |  |  |  |  |  |

|   |   |   |   |   |   | USU                      |     | WSU  |                |     |
|---|---|---|---|---|---|--------------------------|-----|--|----------------|-----|
|   |   |   |   |   |   | Course                   | Cr  | Course Title                               | Course         | Cr  |
| X |   |   |   |   |   | BENG 1880                | 3   | Quantitative Biological Systems            |                |     |
| X |   |   |   |   |   | BENG 2330                | 3   | Properties of Biomaterials                 |                |     |
| X |   |   |   |   |   | BENG 2400                | 3   | Biological Thermodynamics                  | Engr 2300      | 3   |
| X |   |   |   |   |   | BIOL 1610 (was 1210)     | 4   | Biology I                                  |                |     |
| X |   |   |   |   |   | BIOL 3300                | 4   | General Microbiology                       | Micro 2054     | 4   |
|   | X | X |   |   |   | CEE 1880                 | 1   | CEE Orientation & Computer Applications    | Engr 1000      | 2   |
|   | X | X |   |   |   | CEE 2240                 | 3   | Engineering Surveying                      |                |     |
| X | X | X |   |   |   | CEE 2870                 | 2   | Intro to Programming                       |                |     |
|   |   | X |   |   |   | CEE 2890                 | 1   | Sophomore Seminar - Environmental          | Engr 1000      | 2   |
| X | X | X |   |   | X | CHEM 1210                | 4   | Principles of Chemistry I                  | Chem 1210      | 5   |
| X | X |   |   |   | X | CHEM 1215 (was 1230)     | 1   | Principles of Chemistry Lab I              | Chem 1215      | 1   |
| X |   |   |   |   |   | CHEM 2300                | 3   | Principles of Organic Chemistry            | Chem 2310      | 5   |
| X |   |   |   |   |   | CHEM 2315 (was 2330)     | 1   | Organic Chemistry Lab I                    | Chem 2315      | 1   |
| X |   |   |   |   |   | CHEM 3700                | 3   | Introduction to Biochemistry               | Chem 3070      | 4   |
| X |   |   |   |   |   | CHEM 3710                | 1   | Introduction to Biochemistry Lab           | Chem 3070      | 4   |
|   |   |   | X | X |   | CS 1400 (was 1700)*      | 3   | Intro to Computer Science - CS 1           | CS 1400*       | 4   |
|   |   |   | X |   |   | CS 1405 (was 1710)*      | 1   | Intro to Computer Science - CS 1 Lab       | CS 1400*       | 4   |
|   |   |   | X | X |   | CS 1410 (was 1720)*      | 3   | Intro to Computer Science - CS 2           | CS 1410*       | 4   |
|   |   |   | X |   |   | CS 2420 (was 2200)*      | 3   | Algorithms & Data Structures - CS 3        | CS 2420*       | 4   |
|   |   |   | X |   |   | CS 3100                  | 3   | OS + Concurrency                           | CS 3100        | 4   |
|   |   |   | X | X |   | ECE 1000 (was 1010)      | 2   | Intro to Electrical & Computer Engineering | Engr 1000      | 2   |
|   |   |   | X | X |   | ECE 2250 (was 2270/2410) | 4   | Electrical Circuits                        | Engr 2250      | 4   |
|   |   |   | X | X |   | ECE 2700 (was 2530)      | 4   | Digital Circuits                           | Engr 2700      | 4   |
| X | X | X | X | X | X | ENGL 1010                | 3   | Introduction to Writing                    | Engl 1010      | 3   |
| X | X | X | X | X | X | ENGL 2010                | 3   | Intermediate Writing                       | Engl 2010      | 3   |
| X | X | X |   |   | X | ENGR 2010 (was 2000)     | 3   | Engineering Mechanics - Statics            | Engr 2010      | 3   |
| X | X | X |   |   | X | ENGR 2030 (was 2020)     | 3   | Engineering Mechanics - Dynamics           | Engr 2080      | 4   |
|   | X | X |   |   | X | ENGR 2140 (was 2040)     | 3   | Strength of Materials                      | Engr 2140      | 3   |
| X | X | X |   |   |   | ENGR 2450 (was 2210)     | 3   | Engineering Numerical Methods              | Math 4620      | 3   |
| X | X |   |   |   | X | ENGR 2210 (was ETE)      | 3   | Electrical Engineering for Non-majors      | Engr 2210      | 4   |
| X | X | X |   |   |   | ETE 2270                 | 2   | Computer Engineering Drafting              | DGET 1250      | 3   |
|   | X | X |   |   |   | GEO 1110/1115            | 3+1 | Dynamic Earth                              | GEO 1110+1115  | 3+1 |
|   |   |   |   |   | X | MAE 1200                 | 2   | Engineering Graphics                       |                |     |
|   | X |   |   |   | X | MAE 2160 (was 2060)      | 3   | Material Science                           | ENGR 2160      | 3   |
|   | X |   |   |   | X | MAE 2165                 | 1   | Material Science Lab                       |                |     |
|   |   |   |   |   | X | MAE 2200                 | 3   | Engineering Numerical Methods I            |                |     |
|   | X | X |   |   | X | MAE 2300 (was 2400)      | 3   | Thermodynamics I                           | Engr 2300      | 3   |
|   |   |   |   |   | X | MAE 2450 (was 2210)      | 3   | Engineering Numerical Methods II           |                |     |
| X | X | X | X | X | X | MATH 1210                | 4   | Calculus I                                 | Math 1210      | 4   |
| X | X | X | X | X | X | MATH 1220                | 4   | Calculus II                                | Math 1220      | 4   |
|   | X |   |   |   | X | MATH 2210                | 3   | Multivariable Calculus                     | Math 2210      | 4   |
| X | X | X |   |   | X | MATH 2250                | 4   | Linear Algebra & Differential Equations    | Math 2250      | 4   |
|   |   |   | X | X |   | MATH 2270                | 3   | Linear Algebra                             | Math 2270      | 3   |
|   |   |   | X | X |   | MATH 2280                | 3   | Ordinary Differential Equations            | Math 2280      | 3   |
|   |   |   | X |   |   | MATH 3310                | 3   | Discrete Mathematics                       |                |     |
|   |   |   | X | X |   | MATH 5710                | 3   | Introduction to Probability                | Math 3410      | 3   |
|   |   |   | X | X | X | PHYS 2200                | 2   | Elements of Mechanics                      | Phys 2210+2215 | 5+1 |
| X | X | X | X | X |   | PHYS 2210 + 2215         | 4+1 | General Physics - Science I                | Phys 2210+2215 | 5+1 |
|   |   |   | X | X | X | PHYS 2220 + 2225         | 4+1 | General Physics - Science II               | Phys 2220+2225 | 5+1 |

\* Series should be completed at one school. weber.edu