

COLLEGE OF ENGINEERING  
ENGINEERING  
Southern Illinois University at Carbondale  
Course Substitution List

Illinois Eastern Community Colleges:  
Frontier, Lincoln Trail, Olney Central,  
Wabash Valley 2007-08  
College Name/Catalog Date

| SIUC 2008-09             |                                       |                                       |                          |                          | Illinois Eastern Community Colleges 2007-08 |  |
|--------------------------|---------------------------------------|---------------------------------------|--------------------------|--------------------------|---|--|
| Civil Engineering        | Computer Engineering                  | Electrical Engineering                | Mechanical Engineering   | Mining Engineering       | Course Title                                | Course Substitute(s)                                     |
| ENGR 102                 | --                                    |                                       | ENGR 102                 | ENGR 102                 | Eng. Graphics                               | CAD 1210 <b>or</b><br>EGR 1131                           |
| --                       | ECE 222<br><b>or</b>                  | ECE 222<br><b>or</b>                  | ENGR 222B                | --                       | C++ Programming                             | CIS 2180 <sup>1</sup> <b>or</b><br>DAP 2180 <sup>1</sup> |
| --                       | CS 202                                | CS 202                                |                          | --                       | JAVA Programming <sup>2</sup>               |  |
|                          | CS 220                                |                                       | --                       | --                       | Prog. Data Structures                       | CIS 2170   |
| ENGR 260A                | --T                                   | --T                                   | ENGR 260A                | ENGR 260A                | Statics                                     | PHY 2120   |
| ENGR 260B                | --                                    | --                                    | ENGR 260B                | ENGR 260B                | Dynamics                                    | PHY 2122   |
| CE 263                   | --                                    | --                                    | --                       | MNGE 320                 | Surveying                                   | SRV 1212   |
| CE 350A                  | --                                    | --                                    | CE 350A                  | CE 350A                  | Mechanics of Deform. Bodies                 |  |
| --                       | ECE 235                               | ECE 235                               | ENGR 335                 | --                       | Elec. Circuits                              |  |
| --                       | ECE 225                               | ECE 225                               | --                       | --                       | Digital Systems                             |  |
| CHEM 200 +<br>CHEM 201   | CHEM 200 <sup>3</sup> +<br>CHEM 201   | CHEM 200 <sup>3</sup> +<br>CHEM 201   | CHEM 200 +<br>CHEM 201   | CHEM 200 +<br>CHEM 201   | Intro. Chem. Principles                     | CHM 1130   |
| CHEM 210                 | --T                                   | --T                                   | CHEM 210                 | CHEM 210                 | General & Inorganic Chem.                   | CHM 1132   |
| --                       | --                                    | --                                    | --                       | GEOL 220                 | Physical Geology                            |  |
| MATH 150                 | MATH 150                              | MATH 150                              | MATH 150                 | MATH 150                 | Calculus I                                  | MTH 1171   |
| MATH 250                 | MATH 250                              | MATH 250                              | MATH 250                 | MATH 250                 | Calculus II                                 | MTH 1172   |
| MATH 251                 | MATH 251                              | MATH 251                              | MATH 251                 | MATH 251                 | Calculus III                                | MTH 2173   |
| MATH 305                 | MATH 305                              | MATH 305                              | MATH 305                 | MATH 305                 | Diff. Equations                             | MTH 2181   |
| --                       | --T                                   | --T                                   | --                       | --                       | Intro. to Linear Algebra                    | MTH 2101   |
| PHYS 205A +<br>PHYS 255A | PHYS 205A +<br>PHYS 255A              | PHYS 205A +<br>PHYS 255A              | PHYS 205A +<br>PHYS 255A | PHYS 205A +<br>PHYS 255A | Univ Physics I                              | PHY 2110   |
| PHYS 205B +<br>PHYS 255B | PHYS 205B +<br>PHYS 255B              | PHYS 205B +<br>PHYS 255B              | PHYS 205B +<br>PHYS 255B | PHYS 205B +<br>PHYS 255B | Univ Physics II                             | PHY 2112   |
| PHYS 205C +<br>PHYS 255C | PHYS 205C <sup>3</sup><br>+ PHYS 255C | PHYS 205C <sup>3</sup><br>+ PHYS 255C | --                       | --                       | Univ Physics III                            | PHY 2114   |

<sup>1</sup> C++ Programming is recommended for Mechanical Engineering Majors.

<sup>2</sup> Electrical and Computer Engineering Majors may take either C++ or JAVA Programming.

<sup>3</sup> Third science course may be Chemistry I **or** Physics III for Electrical and Computer Engineering Majors

-- Not required

--T Not required but will count as Technical Elective

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 ENGINEERING TECHNOLOGY  
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| SIUC 2008-09                         | Illinois Eastern Community<br>Colleges 2007-08 |                                |
|--------------------------------------|--|--------------------------------|
| Electrical<br>Engineering Technology | Course<br>Title                                | Course Substitute(s)           |
| ENGR 222B                            | C++ Programming                                | CIS 2180 <b>or</b> DAP 2180    |
| --T                                  | Engineering Drawing I                          | CAD 1210                       |
| --T                                  | Engineering Drawing II                         | CAD 1220 <b>or</b><br>EGR 1131 |
| ET 238                               | Digital Electronics                            |                                |
| ET 245A                              | Elec. Systems                                  | ELT 2231                       |
| ET 304A                              | Electrical Circuits                            |                                |
| CHEM 140A                            | Chemistry                                      | CHM 1120                       |
| MATH 108 + 109                       | College Algebra &<br>Trigonometry              | MTH 1102 + 1105                |
| MATH 150                             | Calculus I                                     | MTH 1171                       |
| MATH 250                             | Calculus II                                    | MTH 1172                       |
| PHYS 203A +<br>PHYS 253A             | College Physics I                              | PHY 1120 <b>or</b> 1111        |
| PHYS 203B +<br>PHYS 253B             | College Physics II                             | PHY 1122 <b>or</b> 1112        |

--T Not required but will count as Technical Elective

Revised 12/13/2007

COLLEGE OF ENGINEERING  
INDUSTRIAL TECHNOLOGY  
Southern Illinois University at Carbondale  
Course Substitution List

Illinois Eastern Community Colleges:  
Frontier, Lincoln Trail, Olney Central,  
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|---------------------------|--------------------------------------|--|
| Industrial Technology     | Course Title                         | Course Substitute(s)   |
| IT 110                    | Geometric Dimensioning & Tolerancing | CAD 1210   |
| IT 208                    | Manufacturing Processes              | MAC 2203   |
| IT 270 <b>or</b> CS 200B  | Introduction to Business Computing   | DAP 1203   |
| IT 307 <b>or</b> MATH 140 | Short Course in Calculus             | MTH 1152   |
| MATH 111                  | College Algebra and Trigonometry     | MTH 1102 + 1105  |
| PHYS 203A + PHYS 253A     | College Physics I                    | PHY 1120 <b>or</b> 1111  |
| PHYS 203B + PHYS 253B     | College Physics II                   | PHY 1122 <b>or</b> 1112  |
| TE                        | Technical Electives - 29 hours       | Up to 29 technical elective hours may be transferred in IT. The technical elective requirement is fulfilled with an A.A.S. Degree. |