

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale
Course Substitution List

Lincoln Land Community College 2007-08
College Name/Catalog Date

| SIUC 2008-09 | | | | | Lincoln Land Community College 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 | ENG 101 |
| -- | ENGR 222B or | ENGR 222B or | ENGR 222B ¹ | -- | C++ Programming ¹ | MAT 161 or CSC 175 |
| -- | CS 202 | CS 202 | -- | -- | JAVA Programming ² | CPC 110 ² |
| | CS 220 | -- | | -- | Prog. Data Structures | CSC 176 |
| CE 250 | --T | --T | CE 250 | CE 250 | Statics | ENG 220 |
| ME 261 | -- | -- | ME 261 | ME 261 | Dynamics | ENG 221 |
| CE 350A | -- | -- | CE 350A | CE 350A | Mechanics of Deform. Bodies | ENG 240 |
| -- | ECE 235 ³ | ECE 235 ³ | ENGR 335 | -- | Elec. Circuits | ENG 270 ³ |
| -- | ECE 225 | ECE 225 | -- | -- | Digital Systems | |
| CHEM 200 + CHEM 201 | CHEM 200 ⁴ + CHEM 201 | CHEM 200 ⁴ + CHEM 201 | CHEM 200 + CHEM 201 | CHEM 200 + CHEM 201 | Intro. Chem. Principles | CHE 101 |
| CHEM 210 | --T | --T | CHEM 210 | CHEM 210 | General & Inorganic Chem. | CHE 102 |
| -- | -- | -- | -- | GEOL 220 | Physical Geology | GEO 101 |
| MATH 150 | MATH 150 | MATH 150 | MATH 150 | MATH 150 | Calculus I | MAT 131 |
| MATH 250 | MATH 250 | MATH 250 | MATH 250 | MATH 250 | Calculus II | MAT 132 |
| MATH 251 | MATH 251 | MATH 251 | MATH 251 | MATH 251 | Calculus III | MAT 233 |
| MATH 305 | MATH 305 | MATH 305 | MATH 305 | MATH 305 | Diff. Equations | MAT 235 |
| -- | --T | --T | -- | -- | Intro. to Linear Algebra | MAT 215 |
| PHYS 205A + PHYS 255A | PHYS 205A + PHYS 255A | PHYS 205A + PHYS 255A | PHYS 205A + PHYS 255A | PHYS 205A + PHYS 255A | Univ Physics I | PHY 201 |
| PHYS 205B + PHYS 255B | PHYS 205B + PHYS 255B | PHYS 205B + PHYS 255B | PHYS 205B + PHYS 255B | PHYS 205B + PHYS 255B | Univ Physics II | PHY 202 |
| PHYS 205C + PHYS 255C | Phys 205C ⁴ + Phys 255C | Phys 205C ⁴ + Phys 255C | -- | -- | Univ Physics III | PHY 203 |

¹ C++ Programming is recommended for Mechanical Engineering Majors.

² Electrical and Computer Engineering Majors may take C++ or JAVA Programming.

³ One hour of Laboratory will be required at SIUC.

⁴ Third science course may be Chemistry **or** Physics III for Electrical and Computer Engineering Majors

-- Not required

--T Not required but will count as Technical Elect

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

Lincoln Land Community College 2007-08
 College Name/Catalog Date

| SIUC 2008-09 | Lincoln Land Community College 2007-08 | |
|---|---|---------------------------|
| Electrical Engineering Technology | Course Title | Course Substitute(s) |
| ENGR 222B | C++ Programming | MAT 161 or CSC 175 |
| --T | Engineering Drawing I | ENG 101 |
| --T | Engineering Drawing II | CAD 152 |
| ET 238 | Digital Electronics | ELT 220 |
| ET 245A | Elec. Systems | ELT 110 |
| --T | Processes Lab | |
| --T | Statics | ENG 220 or TES 206 |
| --T | Dynamics | ENG 221 |
| ET 304A ¹ | Electrical Circuits | ENG 270 |
| --T | Strength of Materials | ENG 240 |
| CHEM 140A | Chemistry | CHE 100 |
| MATH 108 + 109 | College Algebra & Trigonometry | MAT (113 + 120) |
| MATH 150 | Calculus I | MAT 131 |
| MATH 250 | Calculus II | MAT 132 |
| PHYS 203A + PHYS 253A | College Physics I | PHY 101 |
| PHYS 203B + PHYS 253B | College Physics II | PHY 102 |

¹ One hour of Laboratory will be required at SIUC
 --T Not required but will count as Technical Elective

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

Lincoln Land Community College 2007-08
College Name/Catalog Date

| SIUC 2008-09 | | Lincoln Land Community College 2007-08 |
|------------------------------|---|--|
| Industrial Technology | Course Title | Course Substitute(s) |
| IT 110 | Geometric Dimensioning & Tolerancing | CAD 221 |
| IT 208 | Manufacturing Processes | |
| IT 270 or CS 200B | Introduction to Business Computing | CAS 121 |
| IT 307 or MATH 140 | Short Course in Calculus | MAT 130 |
| MATH 111 | College Algebra and Trigonometry | MAT (113 + 120) |
| PHYS 203A + PHYS 253A | College Physics I | PHY 101 |
| PHYS 203B + PHYS 253B | College Physics II | PHY 102 |
| 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. |