

**COLLEGE OF ENGINEERING
ENGINEERING**

Southern Illinois University Carbondale
Course Substitution List

Oakton Community College 2003-04

SIUC 2003-04					Oakton Community College 2003-04	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	ENG 120 or CAD 116
	--	--		ENGR 222A	Fortran or C Programming	CSC 170 + 172 ¹
--T	--T	ECE 222	ECE 222			CSC (170 + 171) ²
	CS 202	--T			JAVA Programming	CSC (170 + 173)
--	CS 220	--T	--	--	Prog. with Data Structures	CSC 241
CE 250	--T	--T	CE 250	CE 250	Statics	ENG 211
CE 251	--	--	ME 261	CE 251	Dynamics	ENG 212
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	ENG 217 ³
--	ECE 235	ECE 235	ENGR 335	--	Elec. Circuits	ENG 220
--	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	CHEM 121
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 122
--	--	--	--	GEOL 220	Physical Geology	EAS 101
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MAT 250
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 251 + 252
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MAT 262
--	--T	--T	--	--	Intro. to Linear Algebra	MAT 260
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHY 221
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHY 222
PHYS 205C + PHYS 255C	PHYS 205C ⁴ + PHYS 255C	PHYS 205C ⁴ + PHYS 255C	--	--	Univ. Physics III	PHY 223

¹ FORTRAN Programming is Recommended for Mining Engineering Majors.

² "C" Programming is Recommended for Electrical Engineering Majors and Mechanical Engineering Majors.

³ One Hour of Laboratory in Mechanics of Deformable Bodies Will Be Required at SIUC.

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

-- Not Required

--T Not Required But Will Count as Technical Elective

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

Oakton Community College 2003-04
 College Name/Catalog Date

SIUC 2003-04		Oakton Community College 2003-04	
Electrical Engineering Technology	Mechanical Engineering Technology	Course Title	Course Substitute(s)
ECE 222	ECE 222	C Programming	CSC (170 + 171) or 155
--T	ET 103	Engineering Drawing I	ENG 120
--T	ET 104	Engineering Drawing II	CAD 116
ET 238	--T	Digital Electronics	ELT 231
ET 245A	ET 245A	Elec. Systems	ELT 102 + 103
--T	ET 209	Processes Lab	MEC 105
--T	ET 260A	Statics	ENG 211 or MEC 230
--T	ET 260B	Dynamics	ENG 212
ET 304A	--T	Electrical Circuits	ENG 220
--T	ET 311	Strength of Materials	ENG 217 ¹
CHEM 140A	CHEM 140A	Chemistry	CHM 101
MATH 111	MATH 111	College Algebra & Trigonometry	MTH (140 + 122) or 149
MATH 140	MATH 140	Short Course in Calculus	MAT 180
MATH 282	MATH 282	Intro. to Statistics	MAT 131 or 190
PHYS 203A + PHYS 253A	PHYS 203A + PHYS 253A	College Physics I	PHY 131 or 101
PHYS 203B + PHYS 253B	PHYS 203B + PHYS 253B	College Physics II	PHY 132

¹One Hour of Laboratory in Strength of Materials Will Be Required at SIUC.

--T Not Required But Will Count as Technical Elective

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

Oakton Community College 2003-04
 College Name/Catalog Date

SIUC 2003-04		Oakton Community College 2003-04
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	ARC 110, ENG 120, or CAD 116
IT 208	Manufacturing Processes	MEC 105
IT 270 or CS 200B	Introduction to Business Computing	CIS 103 or CSC 115
IT 307 or MATH 140	Short Course in Calculus	MAT 180
MATH 111	College Algebra and Trigonometry	MAT (140 + 122) or 149
PHYS 203A + PHYS 253A	College Physics I	PHY 101 or 131
PHYS 203B + PHYS 253B	College Physics II	PHY 132
TE	Technical Electives - 30 hours	Up to 30 technical elective hours may be transferred in IT. The technical elective requirement is fulfilled with an A.A.S. Degree.