

# ENGINEERING TRANSFER

## MAJOR REQUIREMENTS 1996 - 2007

- 1. Chemical Engineering Majors must take Chemical Principles 160:115-116 as a freshman ;Organic Chemistry 160:335-335 during their sophomore year.
- 2. Electrical Engineering Majors must take Electric Circuits II 750:234 and the lab 750:236 during the second term of their sophomore year.
- 3. Due to unavailability of some key second year courses, some majors may require three years in New Brunswick. Civil, Electrical and Mechanical Engineering may be completed in two years, although some summer courses are recommended. All others (Bioresource, Chemical, Ceramic and Industrial) will require three years. Contact Dean Fred Bernath (bernath@rci.rutgers.edu) for advising.

<u>COURSES REQUIRED</u>	<u>MINIMUM CREDITS</u>	<u>COURSES COMPLETED Subj.#: Course #</u>	<u>COMPLETED CREDITS SEM/YR</u>	<u>SENIOR REVIEW</u>
<b><u>FIRST YEAR</u></b>				
<b><u>First Term</u></b>				
ENGLISH COMPOSITION I	3	350:101	_____	_____
UNIFIED CALCULUS I	4	640:121	_____	_____
ELEMENTS OF PHYSICS I	3	750:131	_____	_____
ELEMENTS OF PHYSICS LAB I	1	750:133	_____	_____
CHEMICAL PRINCIPLES ( <u>ONLY</u> Chemical Engineering Majors must take: see note 1 above)	3	160:115	_____	_____
CHEMICAL PRINCIPLES LAB I ( <u>ONLY</u> Chemical Engineering Majors must take: see note 1 above)	1	160:125	_____	_____
SOCIAL SCIENCE/HUMANITIES ELECTIVE (see reverse)	3	:	_____	_____
<b><u>Second Term</u></b>				
UNIFIED CALCULUS II	4	640:122	_____	_____
ELEMENTS OF PHYSICS II	3	750:132	_____	_____
ELEMENTS OF PHYSICS LAB II	1	750:134	_____	_____
INTRO. TO COMPUTER SCIENCE and LAB	3,1	198:111,112	_____	_____
CHEMICAL PRINCIPLES II ( <u>ONLY</u> Chemical Engineering Majors must take: see note 1 above)	3	160:116	_____	_____
CHEMICAL PRINCIPLES LAB II ( <u>ONLY</u> Chemical Engineering Majors must take: see note 1 above)	1	160:126	_____	_____
SOCIAL SCIENCE/HUMANITIES ELECTIVE(see reverse)	3	:	_____	_____
<b><u>SECOND YEAR</u></b>				
<b><u>First Term</u></b>				
CHEMICAL PRINCIPLES I (For non-Chem.Eng. Majors) <u>OR</u> ORGANIC CHEMISTRY I (For Chemical Engineering Majors, see note 1 above)	3	160:	_____	_____
CHEMICAL PRINCIPLES LAB I <u>OR</u> ORGANIC CHEMISTRY LAB I (see above)	1	160:	_____	_____
UNIFIED CALCULUS III	4	640:221	_____	_____
ELECTRIC CIRCUITS I	3	750:233	_____	_____
ELECTRIC CIRCUITS LAB I	1	750:235	_____	_____
MECHANICS I: STATICS	3	750:253	_____	_____
<b><u>Second Term</u></b>				
CHEMICAL PRINCIPLES II (For non-Chem.Eng. Majors) <u>OR</u> ORGANIC CHEMISTRY II (For Chemical Engineering Majors, see note 1 above)	3	160:	_____	_____
CHEMICAL PRINCIPLES LAB II <u>OR</u> ORGANIC CHEMISTRY LAB II (see above)	1	160:	_____	_____
ELEMENTARY DIFFERENTIAL EQUATIONS	3	640:314	_____	_____
ELEMENTS OF MODERN PHYSICS	3	750:232	_____	_____
MECH. OF MATERIALS (NOT req. Elect.,Chem.,Ceramic)	3	750:291	_____	_____
ELECTRIC CIRCUITS II AND LAB (Required of Elect. Eng.)	4	750:234,236	_____	_____
SOCIAL SCIENCE / HUMANITIES COURSE (see reverse)	3	_____	_____	_____
<b>LAST 2 OR 3 YEARS - SEE NEW BRUNS. CATALOG</b>				1996-2007

15 - 18 Credits of Social Science or Humanities Electives are required. These credits include the required 01:220:200. Economics 105, 106 offered in Camden count as 01:220:200 plus 3 general elective credits, NOT humanities/social science credits. Only 6 credits of the remaining 12-15 may be at 100-200 level.

The following CCAS courses are considered acceptable as humanities/social science electives by the Rutgers College of Engineering. They are not quantitative in nature.

ANTHROPOLOGY (070): 213, 228, 301, 320, 321, 338

ART HISTORY (082): 101, 102, 212, 237, 270, 285, 310, 311, 320, 331, 332, 333, 340, 349, 351, 352

ARTS & SCIENCE (Interdisciplinary Courses) (090): 291, 292, 293, 294

ECONOMICS (220): 105, 106, 202, 310, 313, 319, 324, 331, 333, 342

ENGLISH (350): 225, 226, 231, 238, 239, 316, 317, 318, 321, 322, 324, 330, 331, 332, 333, 342, 346, 349, 351, 353, 356, 357, 358, 362, 364, 372, 388; (352): 225, 226, 250, 251, 307, 308, 309, 310, 311, 313, 322, 329, 337, 338)

FRENCH (420): 131, 132, 201, 202, 203, 204, 335, 336, 341, 342

GERMAN (470): 131, 132, 203, 204, 336, 339, 340

HISTORY (510): 101, 102, 203, 211, 212, 231, 232, 241, 242, 250, 255, 260, 265, 270, 275, 299, 301, 303, 304, 305, 311, 312, 315, 316, 321, 322, 325, 326, 331, 332, 335, 336, 351, 352, 355, 360, 365, 370, 375, 376, 377, 378, 379, 380, 385, 386, 391, 392, 395, 396, 410, 420, 430, 480

AMERICAN HISTORY (512): 201, 202, 203, 204, 211, 212, 215, 220, 225, 276, 300, 305, 310, 315, 320, 325, 330, 335, 351, 352, 361, 362, 371, 372, 390, 410, 415, 420, 425, 430, 440, 445, 450

MUSIC (700): 201, 202, 292, 293, 320, 337, 339, 340

PHILOSOPHY (730): 226, 301, 302, 303, 305, 307, 308, 313, 314, 315, 316, 319, 320, 326, 327, 334, 344, 349, 361, 367

POLITICAL SCIENCE (790): 101, 205, 215, 305, 311, 316, 318, 320, 321, 324, 330, 335, 336, 337, 351, 356, 381, 401, 407, 442

PSYCHOLOGY (830): 101, 335

RELIGION (840): 103, 211, 212, 307, 312, 323, 324, 325, 333, 337

RUSSIAN (860): 131, 132, 269, 319, 320, 403, 404

SOCIOLOGY (920): 207, 208, 216, 217, 270, 306, 313, 316, 321, 323

SPANISH (940): 121, 122, 131, 132, 203, 204, 266, 301, 302, 305, 415, 421, 426, 435, 436, 438, 455, 456, 457, 458, 463, 464

THEATRE ARTS (965): 201, 211, 212, 279, 280

URBAN STUDIES (975): 104, 204, 306, 331, 413

WOMEN'S STUDIES (988): 410

**ENGINEERING PROGRAMS: Bioresource, Biomedical, Ceramic, Chemical (Chem or Biochem), Civil (Water Resources or Civil), Electrical & Computer (EE or Computer), Industrial, Mechanical (ME or Biomechanical), Applied Science**