

Technology Education (TEED)



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A Teacher Education Program

There is a great need for highly qualified teachers of science and technology at the secondary school level. Nationwide, middle and high schools are facing a shortage of technology teachers. The Technology Education (TEED) program is a partnership between NJIT and Rutgers University, Newark, offering a degree in Engineering Technology and an instructional certification with the Teacher of Technology Education (1810) endorsement.

The technology education curriculum provides an in-depth knowledge of various engineering technology disciplines in addition to the required education courses. Students will take a core group of technical courses, and have an ability to concentrate in one or more of the Engineering Technology options. Students will also complete their degree with a 6-credit student teaching course.

Students who wish to enter the program as a transfer student are typically students with an A.A.S. degree in an Engineering Technology program or an A.S. program in a technical discipline. These students should have completed most or all of the courses, or their equivalents, in the first two years of the program as shown below. In the case of all students, both four-year and transfer, a minimum of 131 credits is required for graduation.

Candidates for a teacher-education certificate must have a 3.0 cumulative grade point average to complete their teacher education program. They also must pass the appropriate PRAXIS examination before the New Jersey State Department of Education will issue the appropriate certificate.

The Edge in Knowledge

New Jersey Institute of Technology is located near Manhattan, in the middle of a large industrial area that offers excellent opportunities to highly qualified professionals. The rapid recent expansion of modern industries has opened new areas of employment for NJIT's graduates.

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(See curriculum on back page)

BSET - Technology Education (TEED) Option - (126 Credits)

Course ID	FIRST YEAR - 30 credits 1st Semester (15 credits)	Cr
CS106	Roadmap to Computing Engineers	3
HUM 101	English: Writing, Speaking, Thinking I	3
Phys 102	General Physics	3
Math 138	General Calculus I	3
Phys 102A	General Physics Laboratory	1
MET 103	Engineering Graphics/Intro to CAD	2
ET 101	Introduction to Engineering Technology	0
Fresh Sem	Freshman Seminar	0
Course ID	SECOND YEAR – 33 credits 1st Semester (18 credits)	Cr
MET 235	Statics	3
Chem 301	Chemical Technology	3
R21:300:292	Social Foundations in Urban Schools* (replaces EPS 202 as GER)	3
Elective	Free	3
ECET 215	Introduction to Digital Electronics	3
R21:300:295	Adolescent Psychology	3
Course ID	THIRD YEAR – 36 credits 1st Semester (18 credits)	Cr
CET 313	Construction Procedures	3
R 21:300:410	Information & Communication Technologies in Secondary Classrooms	3
CPT 325	Medical Informatics Technology	3
R 21:300:388	Curriculum and Instruction in Secondary Classrooms	3
Electives	Technical (3xx or 4xx)	3
CET 317	Construction Computing	3
Course ID	FOURTH YEAR – 27 credits 1st Semester (15 credits)	Cr
HSS	Humanities Capstone Course	3
IE 473	Safety Engineering	3
Elective	Technical – ET (3xx or 4xx)	3
Elective	Technical – ET (3xx or 4xx)	3
R21:300:418	Clinical I: Practicum Seminar (<i>PRAXIS must be taken prior to taking this class</i>)	2
R21:300:419	Practicum Experience	1

Course ID	2nd Semester (15 credits)	Cr
Math 238	General Calculus II	3
Phys 103	General Physics	3
Phys 103A	General Physics	1
ECET 201	Circuits I	3
MET 105	Applied Computer Aided Design	2
HUM 102	English: Writing, Speaking, Thinking II	3
Course ID	2nd Semester (15 credits)	Cr
Elective	Humanities and History GER (200 level)	3
R 21:300:298	21 st Century Urban Educator	3
IE 224	Production Process Design	3
MET 237	Strength of Materials	3
ME215	Engineering Materials and Processes	3
Course ID	2nd Semester (18 credits)	Cr
Elective	Culture** (see list) - Hum and Hist GER (300 level)	3
CET 314	Construction Procedures II	3
Math 305 or MNET 315	Statistics for Technology or Industrial Statistics	3
R 21:300:390	Understanding Educational Evaluation	3
R21:300:386	Methods of Teaching	3
STS 310	Technology and Human Values	3
Course ID	2nd Semester (12 credits)	Cr
R 21:300:487	Clinical II	3
R 21:300:488	Student Teaching Experience	3
R21:300:427	Supervised Teaching	3
R21:300:428	Supervised Teaching	3

*For general information on the Urban Teacher Education Program (UTEP) at Rutgers-Newark, go to <http://www.ncas.rutgers.edu/urbaned>

For information on the required course sequence for the Urban Teacher Education Program (UTEP) Requirements go to <http://www.ncas.rutgers.edu/department-urban-education/urban-teacher-education-program-utep-requirements>

****List of Culture Courses:**

LIT 330 - World Literature I: North America, Latin America and the Caribbean, Australia and Oceania (3-0-3)

LIT 331 - World Literature II: Africa and the Middle East, Asia, and Europe (3-0-3)

LIT 363 - Ethnic and Minority Drama (3-0-3)

LIT 370 - Literature and Diversity (3-0-3)

Phil 337 - World Religions (3-0-3)

STS 306 - American Mosaic: Understanding Cultural Diversity (3-0-3)

STS 340 - Multiculturalism in a Technological Society (3-0-3)