

PROGRAM ANNOUNCEMENT

Institution:	New Jersey Institute of Technology
New Program Title:	BA in Law, Technology, and Culture
Degree Designation:	Bachelor of Arts in Law, Technology, and Culture
Degree Abbreviation:	BA in Law, Technology, and Culture (LTC)
CIP Code and Nomenclature:	22.9999 Legal Professions and Studies
Campus where the program will be offered:	NJIT in Newark
Date when program will begin:	September 2009
List the institutions with which articulation agreements will be arranged:	All New Jersey county colleges offering appropriate programs in law and related fields will be given the opportunity to form articulation agreements. An accelerated/honors articulation agreement with Seton Hall School of Law is already in place, and other law schools may be added as the program grows.

Is licensure required of program graduates to gain employment? No

Will the institution seek accreditation for this program? No
 If yes, list the accrediting organization:

Program Announcement Narrative

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I. Objectives

The BA in Law, Technology, and Culture (LTC) will provide training in the history, philosophy, and political and social development of law, with emphasis on scientific, technological, environmental, medical, and media issues that are particularly relevant in the 21st century. Its chief objectives are (1) to provide a focused, interdisciplinary liberal arts degree program that serves as the centerpiece of pre-law education at a technological university and prepares students for careers in law and law-related areas of business and government, as well as for further graduate study of the law in various disciplines, and (2) to attract exceptionally well-qualified students who recognize this program as an attractive path to careers in law and related fields. It is expected that most of the students in this program will be members of the Albert Dorman Honors College.

Although administered by the History faculty at NJIT, the program will draw upon a wide array of NJIT and Rutgers-Newark courses in different academic disciplines, including history, STS, philosophy, engineering, management, environmental science and policy, information technology, criminal justice, and political science. These courses also support the Legal Studies minor, which has been in existence at NJIT for about ten years and attracts students from a variety of majors.

II. Need

II. A. Need for the Program

Traditionally, many students bound for law school have earned undergraduate degrees in the liberal arts, particularly in political science and history. With regard to undergraduate preparation, science and technology have been accorded a single niche within the legal world: patent law, which requires extensive undergraduate coursework in science or engineering. In the 21st century, however, the barriers separating traditional forms of law from science and technology are rapidly breaking down. Interest is growing – and opportunities in the workplace are increasing – in fields of law such as

- Internet and Media Law
- Intellectual Property Law (including Patent Law)
- Environmental Law (including Space Law)
- Health Law and Bioethics

By combining features of traditional liberal arts pre-law programs with the study of law in relation to media; the environment on earth and in space; science, engineering and technology; and medical/health issues, the BA in Law, Technology, and Culture will meet the growing need for a new kind of undergraduate law education.

II.B. Relationship to the Institutional Master Plans and Priorities

The NJIT administration has assigned high priority to the development of new degree programs that are both academically innovative and cost-effective, and that continue to expand NJIT's student base beyond engineering. The BA in Law, Technology, and Culture is a response to this initiative.

II.C. Relationship to Similar Programs in the State and Region

Most four-year colleges in New Jersey offer an undergraduate major with a focus in law. The great majority of these programs offer the BA in Criminal Justice (e.g., Rutgers-Newark, College of NJ, Richard Stockton, Saint Peter's College, Felician College, Centenary, Georgian Court, Monmouth, Thomas Edison). A few offer broader liberal arts degrees in Justice Studies (College of Saint Elizabeth), Law and Society (Ramapo), Jurisprudence (Montclair State), or Law and Justice Studies (Rowan), but some of these (i.e., Saint Elizabeth and Rowan) are essentially criminal justice programs also. The Information Technology BS program at NJIT also offers a Criminal Justice track within its concentration in Criminal Justice and Law.

Stevens Institute of Technology lists a BA in Science and Law for students interested in patent law and related fields, but it is not a clearly defined degree program with an articulated curriculum.

The proposed BA in Law, Technology, and Culture will therefore stand alone in the state of New Jersey (and as far as we have been able to tell, in the New York metropolitan area), as a well-articulated undergraduate degree program that focuses on the historical, philosophical, social, and political development of law in relation to scientific, technological, environmental, medical, and media issues.

II.D. Distinguished Programs Nationally

The American Bar Association's Division of Public Education maintains a website directory of undergraduate degree programs in Legal Studies (<http://www.abanet.org/publiced/undergrad/>). Among the most distinguished are the Legal Studies majors at the University of California, Berkeley, and the University of Wisconsin, Madison; the Law and Society major at Cornell University; the Law, Jurisprudence and Social Thought major at Amherst College; and the Law, Letters and Society major at the University of Chicago. But there are no baccalaureate programs in the ABA's website like the one being proposed for NJIT.

III. Students

During the last five years, a growing number of NJIT students have been pursuing careers in law. Among History majors, during this period students have gone to law schools such as Rutgers, Temple, Brooklyn,

and Western New England, and in AY2006-7 two students gained admission to Cornell as well as other high-rated law schools. Most of these students were Legal Studies minors; all of them were members of the Albert Dorman Honors College. This stands to reason, since successful applicants to law school must have outstanding academic records and high scores on the LSATs, which correlate closely with the SAT scores that are used as one of the primary criteria for admission to the honors college.

For this reason, the admission criteria for students entering the LTC program from high school will be 1200 SATs and top twenty percent of their high school graduating class. Students entering the program from community colleges and other transfer institutions, as well as from within NJIT, will be required to have a cumulative GPA of at least 3.0, or else to have a GPA of at least 3.0 in the first three courses in the LTC core. It is anticipated that many students in the program – and all students in the accelerated law program with Seton Hall School of Law (and potentially other law schools with which articulation agreements may be made) – will be members of the Albert Dorman Honors College.

The LTC program is expected to have at least 5 students in the first year and grow to a steady state of at least 40 students after five years.

IV. Resources to Support the Program

IV.A. Course Development

Although most of the courses in the LTC program are already in place, we anticipate adding six new courses (3 credits each) that will be required in the LTC curriculum:

Hist 370: Legal Issues in the History of Media
Hist 371: Legal Issues in Environmental History (including Space Law)
Hist 372: Medicine and Health Law in Modern America
Hist 373: International Law and Diplomatic History
LTC 490: Senior Seminar in Law, Technology, and Culture
LTC 492: Internship in Law, Technology, and Culture

Depending on demand, some or all of these courses will be offered as honors sections.

Also depending on demand, a new introductory, lower-level, and probably honors LTC course – LTC 200: Introduction to Law, Technology and Culture – may eventually be added as a seventh Legal Foundations Core Course, in place of a second-year free elective.

IV.B. Faculty

Two NJIT History faculty members who retired in June 2007 are being replaced by new faculty who will play key roles in teaching and

administering the LTC major. One of them, specializing in the cultural historian of 20th-century media, will begin in September 2008. This faculty member will develop and teach Hist 370: Legal Issues in the History of Media and other courses related to law and media, and will also assist with advising LTC majors and Legal Studies minors.

In AY2008-9 the department will conduct a second search, for a faculty member in the area of law and history, to begin in September 2009. That faculty member will be the coordinator and main advisor of the LTC major and the Legal Studies minor and will teach at least two core courses in the major: Hist 369: Law and Society in History and LTC 490: Senior Seminar in Law, Technology, and Culture.

These new faculty will supplement existing faculty and teaching staff in History, Environmental Policy, Information Technology, Industrial Engineering, Management, Humanities, and other NJIT departments and schools, as well as at Rutgers-Newark, who currently offer law-related courses or who will be offering some of the new courses noted in IV.A. above. Several of these faculty and teaching staff have degrees in law.

LTC 492: Internship in Law, Technology, and Culture will be administered in association with the NJIT Career Development Services office, which has been involved with the Law Clerk Mentor/Internship Program that is now in its fourteenth year.

IV.C. Libraries and Computing Facilities

NJIT's Van Houten Library has strong holdings in most areas of science, technology, environment, media, and medicine/health, and for the past two decades it has been steadily building up its collections in the history and policy of these technical fields. For this program, the library will also need to strengthen its holdings in environmental law, space law, media law, and health law. For general resources concerning law, LTC students will draw upon the excellent collection in the library of the nearby Rutgers University-Newark School of Law.

No special computing facilities will be required for this program.

IV.D. Classrooms and Laboratories

No new classrooms or laboratories will be required for this program.

V. Curriculum

STANDARD CURRICULUM (123 credits minimum)

I. Major Courses (51 credits)

A. Legal Foundations Core Courses (15 credits)

Students take 15 credits of Legal Foundations Core Courses that treat aspects of the law in relation to history, philosophy, business, and basic principles of jurisprudence and legal thought, writing, and research.

Hist 369	Law and Society in History
MGMT 290	Legal Environment of Business
Phil 300	Philosophy of Law and Social Justice
SS 300	Basic Principles of Law and the Judicial System
STS 300	Legal Reasoning, Writing, and Technology OR
R790:304**	Introduction to Law and Legal Research

B. Law and Technology Core Courses (15 credits)

Students take 15 credits of Law and Technology Core Courses that treat the history, policy, and practice of law in relation to engineering, environment, health, information technology, and media.

Hist 370*	Legal Issues in the History of Media
Hist 371*	Legal Issues in Environmental History
Hist 372*	Medicine and Health Law in Modern America
IE 447	Legal Aspects of Engineering
IT 400	Information Technology and the Law

C. Law, Technology and Culture Electives (15 credits)

Students select 15 credits from among law-related electives and other approved courses that fit each student's special interests.

Hist 373*	International Law and Diplomatic History
HSS 404/491	History Senior Seminar: Censorship and the Media
HSS 408	STS Senior Seminar: Communication, Ethics and Law
IE 472	Product Liability Engineering
R202:302	Constitutional Issues in Criminal Justice
R202:305	Case Processing: Law and Courts
R512:365, 366	American Legal History I and II
R512:379	U.S. History in the Courts
R790:356**	Sex Law and Public Policy
R790:367	Jurisprudence and Legal Theory
R790:381**	Judicial Process
R790:387	International Law
R790:401, 402**	American Constitutional Law and Politics I and II
R790:409**	Law and Public Policy (writing intensive)
R920:349	Law and Society

Note: Students who wish to pursue a specialty in law in relation to a specific scientific, technological, environmental, medical, or media field (such as health policy or intellectual property on the Internet), legal field (such as environmental law, criminal law, or international law), or interdisciplinary thematic field (such as gender studies) may count up to 9 credits of approved course work in that field toward the electives

requirement for the major. For example, a student interested in environmental law might take Hist 334: Environmental History of North America and 6 credits of courses in environmental science and/or environmental policy for elective course credit in the major.

D. Senior Internship and Seminar (6 credits)

In the senior year, students take two courses (6 credits) that are restricted to LTC majors: LTC 490: Senior Seminar in Law, Technology and Culture, in which students prepare a project or write a thesis in a relevant field, and LTC 492: Internship in Law, Technology and Culture, which provides a hands-on, law-related experience as an intern in a law firm, non-profit or government agency, science- or technology-based corporation, or other relevant organization.

LTC 490*	Senior Seminar in Law, Technology and Culture (instructor: new faculty member 2009)
LTC 492*	Internship in Law, Technology and Culture

* Pending approval by the Undergraduate Curriculum Review Committee

** Prerequisite is R790:201: American National Government

II. General University Requirements and Other Requirements (48 credits minimum)

English Composition (6): Hum 101 and Hum 102

Cultural History (3): Hist 213 (another 200-level history course at Rutgers-Newark may be substituted with advisor's approval)

Senior Seminar in Humanities (3)

Natural Science electives (7)

Social Sciences (15): EPS 202, R202:201, R202:202, R790:201, R790:202

Computer/Information Science (3): CS 103 or IS 118

Math (6–7): Math 105 and Math 111 or Math 138

Management (3): Mgmt 390

PE (2)

III. Free Electives (24 credits)

B.A. IN LAW, TECHNOLOGY AND CULTURE (123 credits minimum)

FIRST YEAR:

1st semester (16–17 cr.):

HUM 101 English Composition: Writing, Speaking, Thinking I (3-0-3)

Math 111 Calculus I (4-0-4) **OR**

Math 138 General Calculus I (3-0-3)

CS 103 Computer Science with Business Problems (3-1-3) **OR**

IS 118 Introduction to Application Development Tools (3-0-3)
Elective (Natural Sciences with lab:GUR) (3-1-4)
R202:201 Introduction to Criminal Justice I (3-0-3)
Frsh Sem Freshman Seminar (1-0-0)

2nd semester (15 cr.):

Hist 213 Twentieth-Century World (3-0-3)
HUM 102 English Composition: Writing, Speaking, Thinking II (3-0-3)
Math 105 Elementary Probability and Statistics (3-0-3)
R202:202 Introduction to Criminal Justice II (3-0-3)
Elective (Natural Sciences:GUR) (3-0-3)

SECOND YEAR:

1st semester (16 cr.):

EPS 202 Society, Technology and Environment (3-0-3)
R790:201 American National Government (3-0-3)
Mgmt 290 Legal Environment of Business (3-0-3)
Elective (Free) (3-0-3)
Elective (Free) (3-0-3)
Elective (Physical Education:GUR) (0-1-1)

2nd semester (16 cr.):

Hist 369 Law and Society in History (3-0-3)
R790:202 America and the World (3-0-3)
STS 300 Legal Reasoning, Writing, and Technology (3-0-3) **OR**
R790:304 Introduction to Law and Legal Research* (3-0-3)
Elective (Law, Technology and Culture) (3-0-3)
Elective (Free) (3-0-3)
Elective (Physical Education:GUR) (0-1-1)

THIRD YEAR:

1st semester (15 cr.):

Hist 370* Legal Issues in the History of Media (3-0-3)
Hist 371* Legal Issues in Environmental History (3-0-3)
IT 400 Information Technology and the Law (3-0-3)
Elective (Law, Technology and Culture) (3-0-3)
Elective (Free) (3-0-3)

2nd semester (15 cr.):

Hist 372* Medicine and Health Law in Modern America (3-0-3)
SS 300 Basic Principles of Law and the Judicial System (3-0-3)
Phil 300 Philosophy of Law and Social Justice (3-0-3)
Elective (Law, Technology and Culture) (3-0-3)
Elective (Free) (3-0-3)

FOURTH YEAR:

1st semester (15 cr.):

LTC 490* Senior Seminar in Law, Technology and Culture (3-0-3)
IE 447 Legal Aspects of Engineering (3-0-3)
Elective (Senior Seminar:GUR) (3-0-3)
Elective (Law, Technology and Culture) (3-0-3)
Mgmt 390 Principles of Management (3-0-3)
Elective (Free) (3-0-3)

2nd semester (15 cr.):

LTC 492* Internship in Law, Technology and Culture (3-0-3)
Elective (Law, Technology and Culture) (3-0-3)
Elective (History) (3-0-3)
Elective (Free) (3-0-3)

Elective (Free) (3-0-3)

* Pending approval by the Undergraduate Curriculum Review Committee

Electives:

Law, Technology and Culture (15 credits): Students select electives from among a pre-approved list of law-related courses and other relevant courses. In consultation with an advisor, up to 9 credits may be elected from courses not on the pre-approved electives list.

Free (24 credits): Students select appropriate electives in consultation with the Law, Technology and Culture major advisor.

Natural Sciences GUR (7 credits): Coursework totaling 7 credits in any of the following disciplines: biology, botany, chemistry, geology, and physics. Students may take a sequence of courses in one of these disciplines or courses in different disciplines. Laboratory credit must be included in the 7 credits.

Physical Education GUR (2 credits): Students who register as full-time undergraduates for two or more consecutive semesters must take two PE courses, one of which must be a 100-level fitness core course.

Senior Seminar GUR (3 credits): Three (3) credits in a 400-level senior seminar in the humanities and social sciences (HSS 401, HSS 402, HSS 403, HSS 404, HSS 405, HSS 406, HSS 407, HSS 408, HSS 491). HSS 404 or an appropriate section of HSS 491 may be counted as a history elective.

PATENT LAW CURRICULUM (124 credits minimum)

The curriculum for students interested in pursuing a career as a patent attorney or patent examiner differs from the standard curriculum in Law, Technology and Culture in the following ways:

1. All students take Math 111 (4 cr.)
2. Students apply (a) 7–8 credits of the Natural Sciences GUR, (b) up to 9 credits of Law, Technology and Culture electives, and (c) up to 24 credits of Free Electives in order to fulfill one of the following options (as mandated by the US Patent and Trademark Office):
 - a. Physics Option (24 cr.): 24 credits of approved physics courses
 - b. Biology Option (32 cr.): 8 credits of approved chemistry or physics courses and 24 credits of approved courses in biology, botany, microbiology, or molecular biology
 - c. Chemistry Option (30 cr.): 30 credits of approved chemistry courses
 - d. Science/Engineering Option (40 cr.): 8 credits of approved chemistry or physics courses and 32 credits of approved courses in chemistry, physics, biology, botany, microbiology, molecular biology, or engineering

ACCELERATED PRE-LAW CURRICULUM with Seton Hall School of Law (105 credits at NJIT + the first year at Seton Hall School of Law)

The accelerated pre-law curriculum in Law, Technology and Culture differs from the standard curriculum in the following ways:

1. Students take a total of 105 credits at NJIT during three years of study. The BA is granted from NJIT after successful completion of the first year of law school.
2. In order to complete all NJIT course requirements in their three years at NJIT, students take 12 of their required 105 credits during the summers after their first and second years or as an overload during fall and spring semesters.
3. Students take 6 credits of free electives instead of 24.
4. Students fulfill all the requirements of the Albert Dorman Honors College, and an honors level of scholarship is expected in projects or theses submitted in LTC 490.