TABLE OF CONTENTS

Greetings 3
SC&I and ITI 4
Getting Help in ITI 5
  Advising 5
  ITI Major Listserv 6
  Special Permission Numbers 6
  Transferring Credits 7
Applying to the Major in ITI 8
ITI Major Requirements 9
ITI Major GPA 10
Scholastic Honors 10
Educational Opportunities beyond the Classroom 10
  Senior Thesis 10
  Internship 11
  Independent Study 11
Game Production and Innovation Specialization 12
Suggested Focus Areas 13
Student Organizations 14
Course Listing 15
University Academic Integrity Policy 21
Careers in ITI 22
Department Faculty and Staff 23
Welcome to the Information Technology & Informatics major!

You are entering the program at a time of exciting change! As a student in this major, you have opportunities to develop your knowledge and skills to play a significant leadership role in a dramatically evolving information technology industry.

This handbook outlines regulations and procedures for the major. These change from time to time in accordance with university regulations and ongoing development and evaluation of the major. You are advised to regularly consult the SC&I website where updates and changes will be posted.

I wish you well as you progress with your studies, prepare for exciting careers, and for a lifetime of learning.

Sharon Stoerger, Ph.D.
Director, Information Technology and Informatics Major

PROGRAM CONTACTS

Dr. Sharon Stoerger, Undergraduate Program Director for ITI
(848) 932-8814
sharon.stoerger@rutgers.edu

Ms. Tieka Harris, Undergraduate Advisor
(848) 932-8737
tieka.harris@rutgers.edu

Ms. Jennifer Gibson
(848) 932-8743
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SC&I and ITI

The School of Communication and Information (SC&I) – The Home of the ITI Major

The School of Communication and Information (SC&I) was created in 1982 when the Graduate School of Library and Information Studies and the School of Communication Studies (with its departments of communication and journalism and media studies) merged. That alliance has contributed to SC&I’s status as a leader in responding to the information revolution and the fast-paced changes occurring in the fields of communication, journalism and media studies, and library and information science. Its educational, research, and scholarly activities are informed by the philosophy that communication and information processes must put people first. Its core research and educational concerns focus on the impact of the digital and technological revolution, the globalization of economies and societies and the transformation of the media landscape on the nature of work, the senses of self and the qualities of human relationships, and social organization and the shape of institutions.

The Information Technology and Informatics (ITI) Major

The ITI major, part of the Library and Information Sciences department, places emphasis on the evaluation, implementation, use, and management of information technologies for a wide range of organizations and corporations, as well as the social and organizational aspects of information and communication technologies. The major unites theories drawn from the humanities and social sciences with practical computer-based competencies. This combination prepares students to work in a diverse and highly competitive technological marketplace that demands individuals who understand the social, economic, and organizational impacts of technology locally, nationally and globally. Your study combines rigorous thinking, problem-solving, and technology skills in a program that is based on sound research and current technology applications.

Program-level Learning Objectives

Upon successful completion of the ITI program and through the body of work completed in the program, students will be able to demonstrate:

1. Understanding approaches for the evaluation, implementation, use, and management of information technologies for a wide range of organizations and corporations, as well as the social and organizational aspects of information and communication technologies. A focus is on the importance of logical thinking and the need for highly developed technical skills founded in understanding contexts, principles and processes of programming.

2. Recognizing and applying the central concepts of management and organizational theory as they apply to the technological marketplace and organizational settings, and how information technology infrastructures and systems support corporate and organizational goals.

3. Understanding people as the users of technology, and the social, cultural, philosophical, ethical, legal, public policy and economic issues relating to information technologies.

4. Proficiency in the analysis of problems and opportunities to which information technologies might be applied and the development of appropriate solutions including design and use of coding languages.

5. Ability to apply information technology and management theories and concepts to social, professional and civic life.

These program-level learning objectives provide the essential foundation for the development of knowledge and skills in a variety of directions through the thoughtful choice of elective courses.
GETTING HELP IN THE ITI MAJOR

The Department of Library and Information Science, home to the ITI major, strives to help students with their academic and professional pursuits. To that end, we provide a variety of advising options for our students. We ask that you read the following information prior to scheduling an appointment. This will help to ensure that your needs are met as quickly and appropriately as possible within Department policy.

When you have a question, follow these steps:
1. Check the ITI handbook for an answer (this document)
2. Check the SC&I’s website for an answer: http://comminfo.rutgers.edu
3. Check the ITIC (Information Technology & Informatics Council) notice board.

If you cannot find the answer to your question in these locations, do one of the following:
1. Contact your instructor if your question relates directly to your learning progress in a particular course;
2. Send an email to iti@comminfo.rutgers.edu (A good rule of thumb for email requests: If your question takes more than two sentences to explain, you probably need to meet in person with an advisor.)
3. Call, email, or meet with one of the Departmental Undergraduate Advisors or the ITI Director.

ADVISING

The Department provides a variety of student advising options, and strongly encourages all students to take advantage of these opportunities for a number of important reasons. First, planning your major is important as it helps you to create a sense of what you want to accomplish as an ITI major. Second, during advising sessions, you will learn about prerequisites, how to plan for future semesters, and you will get help in developing strategies to complete requirements on time. Third, there are many opportunities to participate in a variety of extra-curricular activities through the department, and the advisor can help direct you to the ones that suit you best.

Advising for the ITI major is available through the Office of Student Services. You may walk-in for advising, or make an appointment by phone or email. We seek to help you plan ahead in order to avoid last minute problems!

<table>
<thead>
<tr>
<th>Location</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of Student Services (CI – 214)</td>
<td>(848) 932-7500 (press 2 at the prompt)</td>
<td><a href="mailto:comm@comminfo.rutgers.edu">comm@comminfo.rutgers.edu</a></td>
</tr>
<tr>
<td>School of Communication and Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rutgers University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Huntington Street</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Brunswick NJ 08901-1071</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Departmental Undergraduate Advisors

Ms. Tieka Harris  
(848) 932-8737  
tieka.harris@rutgers.edu

Ms. Jennifer Gibson  
(848) 932-8743  
jennifer.gibson@rutgers.edu

The Office of Student Services does not advise students on core curriculum or general University requirements. Such advising must be obtained through one of the University Academic Advising Centers. SAS Advising Centers are located on each of the four campuses: Milledoler Hall on College Ave, Busch Campus Center, Douglass College Hall and Lucy Stone Hall on Livingston Campus. SEBS, MGS, and RBS students should consult their appropriate academic deans or advisors.
THE ITI MAJOR LISTSERV

New ITI majors and all current majors are automatically subscribed to the department listserv - nb_iti_majors@rams.rutgers.edu

Majors do not have to subscribe, and cannot unsubscribe. The email address we use is the one you have established with Rutgers University, listed on the PeopleFind directory, at www.acs.rutgers.edu/directory. If you want to change it, simply go to the bottom of that page and change your directory information.

All postings are automatically scanned for viruses, and any questionable attachments are removed to further protect against viruses. The purpose of the listserv is to provide information to ITI majors about Course Offerings, Registration, Special Events, Internships, Jobs and Discussion with Peers. Remember! If you send (or “post”) an email to the address nb_iti_majors@rams.rutgers.edu it will be read by all students and faculty associated with the undergraduate major in Information Technology and Informatics.

Also note, students are responsible for checking their Rutgers e-mail for important announcements regarding the ITI major. All communication will be via the student’s official University account. Please do not base your planning and decisions on gossip and hearsay. Always check with the ITI Director or Student Services if in doubt.

SPECIAL PERMISSION NUMBERS

ITI courses are extremely popular and often fill up within the first few days of pre-registration. For this reason, the Department has established a set of guidelines to help you navigate the special permission process.

Students who want to enroll in a course that is closed should continue to check the on-line registration system, up to and including the first day of class. Students should go to class THE FIRST DAY and ask the instructor if he/she is able to accept additional students. Once a class is filled, it is at the discretion of the instructor to accept more students. If he/she decides to do so, you will be assigned a special permission number from the list of numbers that are given to the instructors, just before the semester begins.

SPECIAL PERMISSION NUMBERS ARE TO BE USED ONLY BY THE PERSON RECEIVING THE NUMBER. NUMBERS ARE NOT TO BE USED BY ANYONE ELSE.

During the add/drop period, the Undergraduate Student Services Advisors DO NOT have special permission numbers – only faculty teaching the specific course have them. Please do not email the professors and/or the instructors prior to the first day of class. Special permission numbers will not be available until the first day of classes and will only be available utilizing the procedure listed above.

It is important to remember that you might not always gain admission to your first choice courses. Always have alternative courses in mind.

Note that special permission numbers do not replace prerequisites, and do not serve as prerequisite overrides.
TRANSFERRING CREDITS

No more than six (6) transfer credits (2 courses) from other units of Rutgers University, or other universities or colleges, will be accepted toward the major with the exception of students participating in Rutgers-approved study abroad programs. For students participating in such programs a maximum of twelve (12) transfer credits (4 courses) will be accepted toward the major, subject to the review and approval of the program director.

Courses are evaluated in terms of their very close match of content and skills to the ITI course, the level of the course, and the grade achieved (this must be a C or higher). Students will be notified in writing of the outcome of the petition.

Students wishing to transfer credits into the ITI major from other colleges or universities should follow these procedures. Paying close attention to these details will make the process easier. You must bring all of these materials in order to have your transfer credit request considered.

1. Gather the following:
   a) Your transcript from the college/university whose course you wish to transfer (this may be an unofficial transcript), which indicates you earned a C or better in the course.
   b) The syllabus of the course from your other college or university, including assessment requirements and reading lists.
   c) Any paperwork that your degree-granting school (i.e. SAS) may want us to fill out for transfer credits with your contact information, including phone numbers and email addresses.

2. Bring all these documents to SC&I Room 214 (Undergraduate Student Services).

3. See one of the Undergraduate Student Services Advisors (SC&I 214) or the Undergraduate ITI Program Director (SC&I 331).

4. If you are transferring a course from a New Jersey community college, you may use the New Jersey Transfer system at njtransfer.org to determine if the course will transfer into Rutgers. Otherwise, we will evaluate the course, based on the course syllabus or description, and determine which ITI course at Rutgers is equivalent, if any.

5. You will be responsible for returning the completed paperwork to the appropriate office to ensure your transfer credits are indicated on your Rutgers transcript. We encourage you to check your transcript later in the semester to verify these credits were transferred. The Department of Undergraduate Student Services does not actually change codes on the transcript. We only authorize the transfer of credits.

6. For Study Abroad, students are responsible for obtaining an approval from the School of Arts and Sciences and/or the School of Environmental and Biological Sciences, PRIOR TO registering for Study Abroad courses. Prior approval is also required from SC&I. Immediately after returning from a Study Abroad Program, students are responsible for submitting a copy of their transcript for the courses taken abroad. The department will then authorize credit transfer, based on successful completion of the course.
Applying to the Major in Information Technology and Informatics

Preconditions for Submitting an Application to the ITI Major

To apply for admission to the ITI major, you must:
1) Have completed Expository Writing or a University-approved equivalent course with a grade of C or better,
2) Have completed at least 15 credits at Rutgers, or at least 15 transfer credits to Rutgers, with at least a 2.0 Grade Point Average; and
3) Have completed with a grade of C or better, the prerequisite survey course for the ITI major, which is 04:189:103 – Information Technology and Informatics

No grade below C will be accepted toward courses in the major, effective Fall 2007. Major courses in which a grade below C is earned should be retaken, with the exception of elective courses, in which case, an approved alternate course may be taken.

Submitting an Application to the Major

SC&I will accept applications to the 39-credit ITI major during the fall, spring, and summer semesters. Application submission deadlines are published on the SC&I website, and allow for decisions to be announced in time for students to pre-register for the following semester. The SC&I website is located at http://comminfo.rutgers.edu and includes details about our majors, our courses, and our school.

In each course, SC&I integrates the design of content and technology so that the use of digital communication, collaborative work applications, and, in some cases, multimedia tools are built in to the regular work of each class. These courses are listed at the end of this handbook. From time to time, additional elective courses will be made available as 3 credit Special Topics courses.

Degree Requirements for the ITI Major

Interdisciplinary Requirement (3 credits)
One (1) of the following courses must be taken as soon as possible after admittance to the ITI major:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>04:189:101 Introduction to Communication &amp; Information Processes</td>
<td>3</td>
<td>None. Not open to seniors.</td>
</tr>
<tr>
<td>or 04:189:102 Introduction to Media Systems &amp; Processes</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Core Requirements (12 credits)
You must complete 12 credits of core courses in the ITI major.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>04:547:200 Social Informatics</td>
<td>3</td>
<td>None. ITI majors only</td>
</tr>
<tr>
<td>04:547:201 Introduction to Computer Concepts</td>
<td>3</td>
<td>04:547:201; ITI majors only</td>
</tr>
<tr>
<td>04:547:202 Object-oriented Programming</td>
<td>3</td>
<td>ITI majors only</td>
</tr>
<tr>
<td>04:547:210 Management of Technological Organizations</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Elective Requirements (21 credits)
Each student must complete 21 credits (seven 3-credit courses) of electives within the ITI major. Credits earned in 04:547:450 - ITI Internship, 460 - Independent Study, and 465 - Senior Thesis can apply here.
ITI MAJOR REQUIREMENTS

The ITI major is 39 credits. There are 18 credits of requirements, and 21 credits of electives, giving students the opportunity to focus on an area of concentration. A GPA of 2.0 in ITI is required for completion of the ITI major.

You may use this sheet to document the completion of your ITI courses as you proceed through the major.

### REQUIRED COURSES (18 credits)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Semester Taken</th>
<th>Grade</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>04:189:103</td>
<td>Information Technology &amp; Informatics</td>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>04:189:101</td>
<td>Introduction to Communication &amp; Information Processes</td>
<td></td>
<td></td>
<td>None. Not open to seniors.</td>
</tr>
<tr>
<td>or 04:189:102</td>
<td>Introduction to Media Systems &amp; Processes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04:547:200</td>
<td>Social Informatics</td>
<td></td>
<td></td>
<td>None.</td>
</tr>
<tr>
<td>04:547:201</td>
<td>Introduction to Computer Concepts</td>
<td></td>
<td></td>
<td>ITI majors only</td>
</tr>
<tr>
<td>04:547:202</td>
<td>Object-oriented Programming</td>
<td></td>
<td></td>
<td>04:547:201; ITI majors only</td>
</tr>
<tr>
<td>04:547:210</td>
<td>Management of Technological Organizations</td>
<td></td>
<td></td>
<td>ITI majors only</td>
</tr>
</tbody>
</table>

STUDENTS MAY APPLY TO THE MAJOR UPON COMPLETION OF 04:189:103 WITH A GRADE OF C OR BETTER, PROVIDED THE OTHER PRECONDITIONS ARE ALSO MET.

### ITI ELECTIVES (21 credits)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>04:547:_ _ _</td>
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<td>04:547:_ _ _</td>
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<td>04:547:_ _ _</td>
<td></td>
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<tr>
<td>04:547:_ _ _</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
ITI MAJOR GRADE POINT AVERAGE (GPA)
To graduate as an ITI major, students must have a minimum GPA of 2.0 in ITI courses, including the pre-requisite course; and every class in the major must be a C or higher for it to count towards the major.

The student audit system, also referred to as Degree Navigator (DN) at http://nbdn.rutgers.edu provides students with their overall GPA and their major GPA.

SCHOLASTIC HONORS FOR ITI MAJORS
To receive Scholastic Honors designation for graduation, graduating students must:

- have achieved a 3.65 GPA or above in the ITI major AND
- have achieved at least a 3.25 GPA overall in their undergraduate studies.

These honors are not dependent upon participation in any official Honors Program.

EDUCATIONAL OPPORTUNITIES BEYOND THE CLASSROOM

ITI Senior Thesis Program
04:547:465

The Information Technology and Informatics (ITI) program offers an honors program to undergraduates who excel in the major. Students would conduct original research under the supervision of a faculty advisor and an honors thesis committee. In order to enter the program, the specified eligibility requirements must be met; and upon declaration, the program requirements fulfilled. Eligibility requirements include a 3.4 grade point average in the ITI major, 3.2 grade point average overall, completion of 45 credits of university-level work by the end of semester in which declaration is made, agreement from a faculty advisor, and completed ITI honors declaration. Program requirements require the successful completion of Application of Research in Information Technology (04:547:300) usually taken in the fall semester, successful completion of the Honors Thesis course (04:547:465) usually taken in the spring semester, passing an oral defense of the thesis, and presenting the final project at the SC&I session of the Rutgers Undergraduate Research week. Full program admission and completion requirements can be found on the ITI website.
Internship in ITI
04:547:450

The ITI major offers an Internship option. Students are not permitted to take more than a combined total of 6 independent study/internship credits. To be eligible for an internship and/or independent study, students must have 24 credits in ITI major courses by the end of the semester when applying for either course.

An internship is approximately 150 hours of ITI work in an organization over a 15-week period that represents a significant learning opportunity in the major. Through discussion with key personnel in the work organization and SC&I, students are required to identify workplace learning objectives, and to establish how these learning objectives are going to be met and demonstrated through a range of workplace activities. Both the workplace supervisor and academic supervisor at SC&I evaluate the student’s work. An internship generally takes place as students are completing the major, providing them with an opportunity to apply knowledge and skills in the workplace. Before an internship can be formally approved, students are required to develop a full proposal, which outlines its nature, objectives and outcomes. The proposal represents the formal agreement between the student, place of employment and SC&I, and is placed in the student’s file at SC&I. When this proposal is reviewed and approved, students are assigned a special permission number to proceed with the enrollment and to commence the internship. In order to allow sufficient time for review and assessment, the deadline for submission of approved applications (approved by workplace supervisor, academic advisor and ITI Director) is typically one week before the formal closing of the following semester’s registration. Details are available at: [http://comminfo.rutgers.edu/programs/iti/internship.jsp](http://comminfo.rutgers.edu/programs/iti/internship.jsp) and these need to be followed explicitly.

Independent Study in ITI
04:547:460

An independent study is an individually negotiated learning program of approximately 150 hours (3 credits). It provides a framework, which allows students to design, negotiate and manage a tailor-made program of study based on existing experience and knowledge and on longer term intentions and needs. Typically, students work with SC&I faculty on research projects in order to receive independent study credit. Students are required to identify learning objectives, and to work through how these learning objectives are going to be met and demonstrated to the academic supervisor in SC&I. Students are expected to have completed substantial course work in the ITI major before commencing an independent study. In order for it to be formally approved, students are required to develop a full proposal. When this proposal is reviewed and approved, students will be assigned a special permission number to proceed with the enrollment and to commence the independent study. Details on preparing an Independent Study proposal are available on the SC&I website at: [http://comminfo.rutgers.edu/information-technology-and-informatics-major/independent-study.html](http://comminfo.rutgers.edu/information-technology-and-informatics-major/independent-study.html) and these need to be explicitly followed.

**NOTE:** Both the internship and independent study options require students to communicate regularly with their academic advisors. Students may not do both an Internship and Independent Study in the same semester.
GAME PRODUCTION AND INNOVATION SPECIALIZATION FOR ITI MAJORS

Are you passionate about games? Would you like to work as a producer in the video game industry? The Game Production and Innovation Specialization and Certificate Program is designed for people just like you!

THE SPECIALIZATION PROGRAM

The Game Production and Innovation specialization is designed for ITI majors who have an interest in gaming and game studies either in addition to or instead of a focus on the coding and development processes in the industry. The specialization is intended to provide a basic understanding of game informatics and design, that is, understanding the social dimensions of the various users (e.g., designers, builders, players, managers, and so on); the technical dimensions with a focus on design; and the organizational and contextual dimensions.

The objective is to provide students with the capability to plan and design video games to address organizational and societal issues, including recreational gaming. Specific careers in gaming would include game production, game design, writing or screen writing, animation and management.

Six courses are required for the Game Production and Innovation specialization (18 credits).

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04:547:215</td>
<td>Social Impacts of Video Gaming</td>
<td>None</td>
</tr>
<tr>
<td>04:547:315</td>
<td>Game Design Methodology</td>
<td>04:547:201 or instructor permission</td>
</tr>
<tr>
<td>04:547:415</td>
<td>Digital Game Creation (Game Design)</td>
<td>04:547:201 and 04:547:315</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Electives</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>04:547:230</td>
<td>Human-computer Interaction</td>
<td>04:547:202 or 01:198:113 or 01:198:211</td>
</tr>
<tr>
<td>04:547:320</td>
<td>Web Design</td>
<td>04:547:201 or 01:198:113 or 01:198:211 or instructor permission</td>
</tr>
<tr>
<td>04:547:321</td>
<td>Information Visualization</td>
<td>04:547:201 or 01:198:111 OR 01:198:170 or 14:440:127</td>
</tr>
<tr>
<td>04:547:332</td>
<td>Advanced Web Design</td>
<td>04:547:320 or instructor permission</td>
</tr>
<tr>
<td>04:547:420</td>
<td>Economics of Information Technologies</td>
<td>04:547:210 (under review)</td>
</tr>
<tr>
<td>04:547:47x</td>
<td>Game Capstone</td>
<td>None</td>
</tr>
<tr>
<td>04:547:47x</td>
<td>Special Topics in Game Production (coming soon)</td>
<td>None</td>
</tr>
</tbody>
</table>

**NOTE:** Internships and other courses can be taken to fulfill the optional course requirements for the specialization and the certificate subject to review and pre-approval of the ITI Program Director, Dr. Sharon Stoerger (sharon.stoerger@rutgers.edu).
SUGGESTED FOCUS AREAS

A student may elect to focus on any of the following areas within the ITI program to develop specialized skills and knowledge.

**Management focus**
Management of Technological Organizations
[04:547:210]
Leadership in Electronic Environments
[04:547:310]
Information Policies, Politics, and Power
[04:547:400]
Electronic Commerce [04:547:410]
Economics of Information Technologies
[04:547:420]

**Instructional Technology/Training focus**
Retrieving and Evaluating Electronic Information
[04:547:220]
Human-Computer Interaction [04:547:230]
Application of Research in Information Technology [04:547:300]
Web Design [04:547:320]
Information Visualization [04:547:321]
Information Technology and Learning
[04:547:440]

**Help Desk Analysis focus**
Human-Computer Interaction [04:547:230]
Application of Research in Information Technology [04:547:300]
Leadership in Electronic Environments
[04:547:310]
Gender and Technology [04:547:340]
Information Policies, Politics, and Power
[04:547:400]

**IT Project Management focus**
Management of Technological Organizations
[04:547:210]
Application of Research in Information Technology [04:547:300]
Leadership in Electronic Environments
[04:547:310]
Information Policies, Politics, and Power
[04:547:400]

**Information System Designers/Developers focus**
Object-Oriented Programming [04:547:202]
Retrieving and Evaluating Electronic Information
[04:547:220]
Database Technologies [04:547:330]
Networking and Internet Technologies
[04:547:331]
Advanced Programming [04:547:430]

**Web Design focus**
Retrieving and Evaluating Electronic Information
[04:547:220]
Human-Computer Interaction [04:547:230]
Web Design [04:547:320]
Information Visualization [04:547:321]
Advanced Web Design [04:547:332]
Gender and Technology [04:547:340]
Advanced Programming [04:547:430]

**Knowledge Management focus**
Management of Technological Organizations
[04:547:210]
Retrieving and Evaluating Electronic Information
[04:547:220]
Application of Research in Information Technology [04:547:300]
Database Technologies [04:547:330]
Information Technology and Learning
[04:547:440]

**E Commerce/E Business focus**
Human-Computer Interaction [04:547:230]
Gender and Technology [04:547:340]
Information Policies, Politics, and Power
[04:547:400]
Electronic Commerce [04:547:410]
Economics of Information Technologies
[04:547:420]
Advanced Programming [04:547:430]
ITI STUDENT ORGANIZATIONS

Information Technology and Informatics Council

The student association supporting the ITI major is the Information Technology and Informatics Council. The purpose of this organization is to establish an active student organization in order to:

- Promote the awareness of the ITI program at SC&I;
- Become the voice of the students within the ITI program and with faculty;
- Work with and support other technology and non-technology based organizations within Rutgers University;
- Provide members with learning and work opportunities.

You are strongly encouraged to join this association and volunteer for a leadership position. It has already developed a strong professional program, and won the Rutgers University award for the Best New Student Association in 2002-2003.

Gamma Nu Eta

Gamma Nu Eta is an honor society that recognizes academic excellence, community service activities, and leadership in the field of Information Technology. Applicants must be students who have been admitted to the Information Technology and Informatics (ITI) program as their major. Members should have at least an overall GPA of 3.5, GPA of 3.65 in the ITI major, and have completed a minimum of 18 credits in the ITI program. Applications are accepted twice a year. More information about GNH can be found at:

http://gammanueta.org/

If you have any questions, comments, or concerns, please contact Dr. Stoerger – sharon.stoerger@rutgers.edu
COURSE LISTING
Not all classes are offered in every term. Some courses may be available during the summer, depending on availability of instructors. Please make sure you plan your semester schedule according to the courses offered during that time. Consult the Rutgers University Online Schedule of Courses (webreg) for additional information. Please make note of the prerequisites associated with each course. See the advisors in the Student Services Office, SC&I Room 214, if you have any questions or need assistance.

Communication and Information Courses
04:189:__ __

101 Introduction to Communication and Information Processes (3)
Survey of the field of communication: interpersonal, group, organizational, speech, mass, intercultural, and international communication; public relations and advertising.

102 Introduction to Media Systems and Processes (3)
Historical development of mass media institutions and the role of media in society. Particular attention to news, government regulation, effects, economics, emerging technologies, and audience dynamics.

103 Information Technology and Informatics (3)
Theoretical foundations of informatics, human-computer interaction, management of information, the relationship between technology, race and gender, and information intelligence.

INFORMATION TECHNOLOGY AND INFORMATICS COURSES
04:547:__ __

111 THE INTERNET AND THE INFORMATION ENVIRONMENT: A QUANTITATIVE APPROACH
Prerequisite: None
This course is a quantitative and mathematically rigorous introduction to concepts that underlie the Internet and Web search engines. A challenging problem will introduce each topic, and the exposition of principles and relevant theorems will be followed by an application to the Internet and at least one other application in the Social Sciences (e.g. social networks) or the Humanities (e.g. author identification).

200 SOCIAL INFORMATICS
Prerequisite: None
This course provides a survey of the key social issues related to information technology development, decision-making and use. Its focus is on the critical analysis of social, cultural, philosophical, ethical, legal, public policy and economic issues relating to information technologies, and how these interactions shape workplace decisions and technology use.
INTRODUCTION TO COMPUTER CONCEPTS
Prerequisite: None, ITI Majors only
As the introductory course to the technological concentration/area in the ITI program, Introduction to Computer Concepts explains the basic principles of computer systems and applications. It covers the basic mathematical-theoretical principles that govern the functioning of computers, the architecture and organization of computer systems, the role of hardware and software, and the role of creative thinking and problem solving in building software applications.

OBJECT-ORIENTED PROGRAMMING
Prerequisite: 547:201 or alternatives listed in Online Schedule of Classes, ITI Majors only
This course introduces students to the principles of object-oriented analysis, design and programming. The focus is on developing creative thinking for analyzing a problem domain and designing a solution, and on using the Java programming language (or other appropriate programming language) to implement it.

MANAGEMENT OF TECHNOLOGICAL ORGANIZATIONS
Prerequisite: None, ITI Majors only
This course presents the fundamental concepts of management and organizational theory applied to the technological marketplace and organizational settings. It focuses on project management with emphasis on decision support systems and management information systems in corporate environments. The course considers information as an organizational resource and students will explore how information systems support corporate and organizational goals.

SOCIAL IMPACTS OF VIDEO GAMES
Prerequisite: None
This course will examine video games from a cultural and social perspective. Rather than focusing on game design, it will explore the ways culture, socialization, and values are a part of gaming. Using a variety of theoretical and methodological approaches, a range of topics will be discussed in an attempt to understand not only the internal workings and social dynamics of computer games, but their place in the broader culture. Topics include: community management and maintenance in games; social processes and interaction; games as communication spaces and virtual worlds; intellectual property and commodification in games, players as producers of game content, political/ideological analysis of games; gender and race in gaming; design and values.

RETRIEVING AND EVALUATING ELECTRONIC INFORMATION
Prerequisite: None
In this course, students examine and analyze the information retrieval process in order to more effectively conduct electronic searches, assess search results, and use information for informed decision making. Major topics include search engine technology, human information behavior, evaluation of information quality, and economic and cultural factors that affect the availability and reliability of electronic information.

HUMAN-COMPUTER INTERACTION
Prerequisite: 547:202 or alternatives listed in Online Schedule of Classes, ITI Majors only
This course studies how best to design the interface between human users and computer systems. Emphasis is placed on learning how to involve the user at different stages in the design process to improve the interface in a cost effective way. In particular, experience with iterative user-centered design, rapid prototyping and usability testing methods are
developed. Students evaluate several computer interfaces as well as iteratively design and evaluate an interface prototype.

240 **DIGITAL HARDWARE BASICS**  
*Prerequisite: None, ITI Majors only*  
This course provides students the opportunity to develop the basic computer skills needed to manage an information technology operation in the business world. The class includes a broad coverage of technology concepts and trends underlying current and future developments in IT operations. We start by introducing the workplace environment of your staff, then moving to the background of the computer and its hardware devices components. The students will end with a broad base of knowledge and competency in hardware operations management including installation, configuration, diagnosing, preventative maintenance, and basic networking.

300 **APPLICATION OF RESEARCH IN INFORMATION TECHNOLOGY**  
*Prerequisite: 547:220, ITI Majors only*  
This course provides an introduction to systematic inquiry in information technology and informatics using quantitative and qualitative approaches with an emphasis on individual and organizational users of information working in electronic environments. It includes the analysis, synthesis, evaluation, and reporting of applied and theoretical research in the information technology field. Computer laboratory sessions are used to facilitate statistical, textual, and graphical analyses of data. Methodologies of research in information technology are critically evaluated.

310 **STRATEGIC LEADERSHIP IN INFORMATICS**  
*Prerequisite: 547:210, ITI Majors only*  
This course focuses on leadership theory and its applicability in understanding the role of leadership in dynamic organizations. The course places emphasis on cultural concerns and the importance of diversity in ensuring competitiveness in the increasingly diverse marketplace. It addresses global issues in information and communication technology, the importance of effective leadership at all levels in organizations, and the relationship between leadership and organizational success. An additional focus is the necessity for collaboration and ethical practices.

315 **GAME DESIGN METHODOLOGY**  
*Prerequisite: 547:201 or alternatives listed in Online Schedule of Classes or permission of the instructor*  
This course examines the theory, practice, and methodology of the modern game designer. Content will cover everything from simple board game mechanics to the inner workings of massively multiplayer experiences. From developing ideas for new product concepts, to writing strong game design documentation, to fine-tuning gameplay mechanics, this course provides a survey of the best practices, key challenges, and unique opportunities for game designers.

320 **WEB DESIGN**  
*Prerequisite: 547:201 or alternatives listed in Online Schedule of Classes, ITI Majors only*  
This course focuses on the role that web pages play in an organization's public profile, and on establishing linkages between specific content and organizational and client needs in a web-based environment. It addresses principles and skills of web design using current W3C standards, website access, usability and evaluation. It also addresses developing website content tailored to specific audiences.
INFORMATION VISUALIZATION
Prerequisite: 547:201, ITI Majors only
In this course, students learn how to effectively present complex information using the Web, multimedia or information visualization techniques. The course develops an understanding of how best to leverage human perceptual capabilities to communicate information or gain insights into large and abstract data.

DATABASE TECHNOLOGIES
Prerequisite: 547:202 or alternatives listed in Online Schedule of Classes, ITI Majors only
This course introduces students to basic database design principles and applications, and the use of database technologies for the organization and management of large information systems. It focuses on development of data structures, data base design principles, relational structures, database testing and use, query language, as well as translating organizational needs into data base applications.

NETWORKING AND INTERNET TECHNOLOGY
Prerequisite: 547:201 or alternatives listed in Online Schedule of Classes, ITI Majors only
This course examines network technologies and architectures, telecommunication networks, computer architectures, and multifunction networks, and with specific focus on intranet and internet technologies. It emphasizes network topology, deployment scenarios, and proper technologies for different needs, the impact of internetworking on business communication solutions, and enterprise network planning and management. Topics considered include multiple access protocols, network layer and routing algorithms, transport layer, flow, error and congestion control, TCP/IP protocols, naming protocols discovery, physical transmission, Internet application protocols: SMTP, HTTP, DNS, SNMP, and emerging network technologies.

ADVANCED WEB DESIGN TECHNOLOGIES
Prerequisite: 547:320 or permission of the instructor, ITI Majors only
With the advent of the Extensible Markup language, web developers have the opportunity to build richer, more fully interactive sites by tapping into the power of a series of flexible and robust technologies that permit more effective sharing of information between organizations. Students will be starting with the fundamentals of XML and moving on into discussions and implementations of XHTML, Schema, DTDs, RSS, Web Services, AJAX and other XML-based frameworks for Web development. Particular attention will be paid to the issues surrounding open source development efforts and the business case for various technologies and their alternatives.

GENDER AND TECHNOLOGY
Prerequisite: None, ITI Majors only
This course analyzes gender in relation to race, class, nationality, culture, religion, and sexuality in the context of technological innovation. Its focus is on fundamental concepts, the feminist critique of techno-science, and the impact of gender issues on workplace inclusiveness and equity, in a transnational and historical perspective. It examines the effects of gender on the development and use of information technologies and on gender-based electronic information preferences.

INFORMATION POLICIES, POLITICS, AND POWER
Prerequisite: 547:200, 547:210, ITI Majors only
This course prepares students for policy development in organizations. It analyzes and synthesizes concerns and conflicts related to information technology, information access and dissemination, freedom of information, copyright, intellectual property rights and
responsibilities, privacy, filtering and information security and computer crime. Legal, political, social and ethical issues and how they contribute to policy development will be considered. Against this backdrop, the course provides opportunity for students to undertake organizational policy development.

410 ELECTRONIC COMMERCE
Prerequisite: 547:202 or alternatives listed in Online Schedule of Classes, ITI Majors only
This course examines the technologies used to transact business electronically. It investigates a range of social, economic and security issues related to such transactions, and the design of websites that facilitate these transactions.

415 DIGITAL GAME CREATION (GAME DESIGN)
Prerequisite: 547:201 and 547:315
Creating a digital game involves merging many of the skills of many disciplines into a single cohesive whole. It involves applying principles from computer programming, two and three dimensional art, animation, physics, mathematics, artificial intelligence, user interface and experience design, psychology, narrative design, and visual communication, to provide an incomplete list. This course focuses upon understanding and demonstrating the technical implementation of game play mechanics within a game engine framework. The purpose of this course is designed to expand upon the work done in Game Design Methodology (04:547:315) to provide an introduction in working with these disparate skill sets by building subsets of a complete game in a digital form.

420 ECONOMICS OF INFORMATION TECHNOLOGIES
Prerequisite: 547:210, ITI Majors only
This course examines economic theories related to information technologies and systems. The concept of information as "commodity" is considered. Quantitative methods such as cost-benefit analysis and return on information technology investment evaluation are introduced. Alternative methods, such as measuring the human costs associated with information technology implementations, are also addressed.

430 ADVANCED PROGRAMMING
Prerequisite: 547:202, ITI Majors only
Building on concepts introduced in Object-Oriented Programming, this course provides students with in-depth exposure to Java (or appropriate programming language), necessary for building realistic applications. The course focuses on creative thinking for generating flexible software designs, on complex user interfaces and on multi-threaded network applications.

432 INFORMATION SECURITY
Prerequisite: 547:201 or alternatives listed in Online Schedule of Classes, ITI Majors only
An introduction to the various technical and administrative aspects of information security and assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses, and an overview of the information security planning and staffing functions.
INFORMATION TECHNOLOGY AND LEARNING
Prerequisite: 547:210, ITI Majors only
This course focuses on understanding how organizations learn, and how information technology can be used for the design and development of instructional systems and materials within the organization to facilitate workplace learning. It will address workplace learning needs, learning styles, learning outcomes, representation of knowledge, problem solving, and assessment of the usability of e-learning systems in the workplace.

ITI INTERNSHIP
Prerequisites: Substantial course work in the ITI major needs to have been completed (24 credits). Prior approval of proposed work by Director of the ITI Program and SC&I academic supervisor, ITI Majors only
The student negotiates or gains a work placement of approximately 150 hours. The internship provides supervised professional work experience in a corporate, research, or educational setting, where there is opportunity to apply and further develop knowledge and skills acquired in the Information Technology and Informatics course work. Internships require the students to communicate regularly with their academic advisors.

INDEPENDENT STUDY
Prerequisites: Substantial course work in the ITI major needs to have been completed (24 credits). Prior approval of proposed independent project by Director of the ITI Program and internal academic supervisor, ITI Majors only
An Independent Study is an individually negotiated learning program of approximately 150 hours. Students design, negotiate and manage a program of study based on their existing experience and knowledge and on their longer term work intentions. Typically this study is not available to the students through the range of elective courses provided in the ITI major. The study builds however on existing knowledge and skills acquired during the major. Students identify learning objectives, construct a program of research, investigation and documentation, and determine how learning outcomes are demonstrated to the academic supervisor in SC&I. Internships require the students to communicate regularly with their academic advisors.

SENIOR THESIS
Prerequisites: Enrollment in ITI Senior Thesis program, senior status, sponsorship from a faculty advisor, 04:189:103; 04:189:102 or 04:189:101; 04:547:200; 04:547:210; 04:547:201; 04:547:202; and 04:547:300. ITI Majors only
The Information Technology and Informatics (ITI) program offers an honors program to undergraduates who excel in the major, and in support of that program, a course specifically structured for the conduct of original research under the supervision of a faculty advisor and an honors thesis committee.

SPECIAL TOPICS
Prerequisites: To be determined on the basis of each proposed course.
Different courses may be offered as electives in the ITI Program. The following courses are examples that have been offered in recent semesters, and may be offered in upcoming semesters:
→ Capstone
→ Data Analytics
  The Digital Divide
  Project Management
→ Understanding and Designing Social Media
SUMMARY OF UNIVERSITY POLICY ON ACADEMIC INTEGRITY

The faculty of the Department of Library and Information Science does not condone cheating of any kind. All students are expected to observe the generally accepted principles of scholarly writing both inside and outside the classroom. Plagiarism and other forms of cheating, when verified, will serve as grounds for assigning the offending party or parties the most severe penalties allowed under the University’s “policy on academic integrity." See http://academicintegrity.rutgers.edu/policy-on-academic-integrity for additional information.

The principles of academic integrity entail simple standards of honesty and truth. Each member of the university has a responsibility to uphold the standards of the community and to take action when others violate them. Faculty members have an obligation to educate students to the standards of academic integrity and to report violations of these standards to the appropriate deans. Students are responsible for knowing what the standards are and for adhering to them. Students should also bring any violations of which they are aware to the attention of their instructors.

Violations of Academic Integrity

Any involvement with cheating, the fabrication or invention of information used in an academic exercise, plagiarism, facilitating academic dishonesty, or denying others access to information or material may result in disciplinary action being taken at either the college or university level. Breaches of academic integrity can result in serious consequences ranging from reprimand to expulsion. Violations of academic integrity are classified into four categories based on the level of seriousness of the behaviors. Brief descriptions are provided below. This is a general description and is not to be considered as all-inclusive.

LEVEL ONE VIOLATIONS may occur because of ignorance or inexperience on the part of the person(s) committing the violation and ordinarily involve a very minor portion of the course work. These violations are considered on academic merit and not as disciplinary offenses.

Examples: Improper footnoting or unauthorized assistance on academic work.
Recommended Sanctions: Makeup assignment.

LEVEL TWO VIOLATIONS involve incidents of a more serious nature and affect a more significant aspect or portion of the course.
Examples: Quoting directly or paraphrasing without proper acknowledgement on a moderate portion of the assignment; failure to acknowledge all sources of information and contributors who helped with an assignment.
Recommended Sanctions: Probation, a failing grade on the assignment, or a failing grade in the course.

LEVEL THREE VIOLATIONS involve dishonesty on a significant portion of course work, such as a major paper, hourly, or final examination. Violations that are premeditated or involve repeat offenses of level one or level two are considered level three violations.
Examples: Copying from or giving others assistance on an hourly or final examination, plagiarizing major portions of an assignment, using forbidden material on an hourly or final, using a purchased term paper, presenting the work of another as one’s own, altering a graded examination for the purposes of regrading.
Recommended Sanctions: Suspension from the university for one or more terms, with a notation of “academic disciplinary suspension” placed on a student’s transcript for the period of suspension, and a failing grade in the course.

LEVEL FOUR VIOLATIONS are the most serious breaches of academic integrity. They include repeat offenses of level three violations.
Examples: Forgery of grade change forms, theft of examinations, having a substitute take an examination, dishonesty relating to senior thesis, master’s thesis, or doctoral dissertation, sabotaging another’s work, the violation of the ethical code of a profession, or all infractions committed after return from suspension for a previous violation.
Recommended Sanctions: Expulsion from the university and a permanent notation on the student’s transcript.

Faculty who believe that violations have occurred should immediately contact SC&I’s Associate Dean Novick. Students who suspect that other students are involved in actions of academic dishonesty should speak to the instructor of the course. Questions on reporting procedures may be directed to the Office of the Dean.
CAREERS IN INFORMATION TECHNOLOGY AND INFORMATICS

See [http://careerservices.rutgers.edu/informatics.shtml](http://careerservices.rutgers.edu/informatics.shtml) for additional information.

The School of Communication, Information and Library Studies offers the major in Information Technology and Informatics. This program emphasizes the evaluation, implementation and management of information technologies for a wide range of organizations. Information Technology and Informatics unites theories drawn from the humanities and social sciences with practical computer-based competencies. This combination prepares students to work in a diverse marketplace, which demands individuals who understand the social and economic impact of technology locally and globally, and the effective use of technology in organizations.

Currently, New Jersey’s growth industries – technology, pharmaceuticals, logistics, and finance – are either driven or heavily supported by information technology. Graduates of the major seek positions in government, health care, industry, education, and finance, where their technical knowledge and skills, and their understanding of the organizational, social and cultural contexts make them valuable employees. Any work that involves communicating as its focal point is a potential career field. The information technology industry is a competitive one, however, and experience is a must.

While most graduates work in a related occupation, others choose different directions. Experience has allowed some to progress without further education. However, an advanced degree can offer an edge, particularly with larger corporations. Many careers do not require a specific major but rather a wide range of demonstrated skills and accomplishments. Regardless of your career choices, increase your marketability to employers through internships, responsible work experience, good grades and involvement in college activities.

- Explore the career paths of [RU Alumni Career Network](http://careerservices.rutgers.edu/informatics.shtml) mentors.
- Go to the Rutgers Online Career Planning Site to explore your interests, skills and values. Use the program for either: [High School Students](http://careerservices.rutgers.edu/informatics.shtml) | [College Students](http://careerservices.rutgers.edu/informatics.shtml).
- Explore [Rutgers University academic department information](http://careerservices.rutgers.edu/informatics.shtml) related to this major.
- See the [Occupational Outlook Handbook](http://careerservices.rutgers.edu/informatics.shtml) for additional career information.
- Pick up your "Career Opportunities" handouts at any New Brunswick Career Services office.
### A Sample of Related Occupations

<table>
<thead>
<tr>
<th>Role</th>
<th>Occupation 1</th>
<th>Occupation 2</th>
<th>Occupation 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Service Representative</td>
<td>Database Designer</td>
<td>Network Administrator</td>
<td>Technical Researcher</td>
</tr>
<tr>
<td>Consultant</td>
<td>Electronic Commerce Developer</td>
<td>Project Manager</td>
<td>Technical Writer</td>
</tr>
<tr>
<td>Customer Support Coordinator</td>
<td>Help Desk Analyst</td>
<td>Project Team Leader</td>
<td>User Interface Specialist</td>
</tr>
<tr>
<td>Data Processing Manager</td>
<td>Human Resources Info. Specialist</td>
<td>Quality Assurance Analyst</td>
<td>Web Analyst</td>
</tr>
<tr>
<td>Data Specialist</td>
<td>Information Officer</td>
<td>Systems Consultant</td>
<td>Web Designer</td>
</tr>
<tr>
<td>Database Administrator</td>
<td>Instructional Technology Designer</td>
<td>Technical Analyst</td>
<td>Web Information Officer</td>
</tr>
<tr>
<td>Database Analyst</td>
<td>IT Specialist</td>
<td>Technical Evaluator</td>
<td></td>
</tr>
</tbody>
</table>

### Types of Employers

**Private and Non-profit Organizations**
- Advertising Agencies
  - Financial Institutions
  - Labor Unions
  - Professional Associations
- Community Organizations
  - Health Organizations
  - Management/Consulting Firms
  - Public Relations Firms
- Computer Firms
  - Hospitality Organizations
  - Media Firms
  - Publishing Companies
- Consulting Firms
  - Hospitals
  - Newspapers
  - Radio Stations
- Educational Organizations
  - Information Design Agencies
  - Nonprofit Organizations
  - Research Organizations
- Entertainment Firms
  - Investment Firms
  - Pharmaceutical/Biotech Firms
  - Telecommunications Firms
  - Television Stations

**Government Agencies**
- Central Intelligence Agency
  - Department of Treasury
  - General Accounting Office
  - National Telecommunications and Information Administration
  - Securities & Exchange Commission
- Department of Commerce
  - FBI
  - Information Administration
- Department of Energy
  - Federal Retirement Thrift Investment Board
  - National Archives
  - Small Business Administration
- Department of Labor
  - Federal Trade Commission
  - National Science Foundation
  - U.S. Information Agency

### Jobs of Graduates

- **Chief Information Officer, AOL Time Warner**
- **Chief Technology Officer, Deutsche Bank (MBA - IT)**
- **Executive IT Support Specialist, Warner Music Group**
- **Graduate Student, Rutgers University (MS Information Technology)**
- **Information Services Leadership Program, J&J**
- **IT Specialist, Picatinny Arsenal**
- **Lead Engineer, Motorola**
- **Network Administrator, Musculoskeletal Transplant Foundation**
- **Quality Assurance Analyst, RTTS**
- **SAP Help Desk Analyst, KForce**
- **Web Designer, Rutgers University**

### Rutgers University
# DEPARTMENT FACULTY & STAFF

A = Annex  
CI = SC&I Building  
D = DeWitt House  
HU = Huntington House

*All phone numbers are (848)-932-XXXX, with the last 4 digits listed below.

## FULL-TIME FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>E-Mail</th>
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<tbody>
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</tbody>
</table>

## PART-TIME LECTURERS

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<th>Name</th>
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<td><a href="mailto:mmchakrabarty@gmail.com">mmchakrabarty@gmail.com</a></td>
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