

COMPUTER INFORMATION TECHNOLOGY

Faculty

Computer Science: Joan Calvert (director MSCIT), Bradley Kjell, Neli Zlatareva (Dept. phone: 832-2710)

Management Information Systems: Marianne D'Onofrio, Michael Gendron (phone: 832-3297)

Computer Electronics and Graphics Technology: Veeramuthu Rajaravivarma, Karen Coale Tracey (Dept. phone: 832-1830) (website: www.cs.ccsu.edu/cit/index.htm)

Overview

The Computer Science Department in the School of Arts and Sciences, the Management Information Systems Department in the School of Business, and the Computer Electronics and Graphics Technology Department in the School of Technology jointly offer a Master of Science degree in Computer Information Technology. All students take a common core of classes offered by each of the departments; students select a specialization in one of the three departments to complete their degree. Computer science is focused on the study of algorithms, the software that implements them, the properties of computers, and the processes for creating these technologies. Management Information Systems focuses on the importance of knowledge and information as an organizational resource for timely, quality business decision making and for achieving competitive advantage. Leadership, project, and change management are emphasized throughout the courses. Computer electronics and graphics technology focuses on computer networking, telecommunication, electronics, and the integration of technologies in a hands-on approach to make the computer network run effectively.

Admission Requirements

The MS-CIT Admission Committee will consider applications for admission every two weeks, and the committee will make final recommendations on acceptance/rejection of applicants for admittance.

All CCSU policies for graduate program admission are in effect. Formal admittance criteria include:

- Official transcripts from all prior undergraduate and graduate programs and course work;
- 3.00 GPA for graduate and 2.70 undergraduate work;
- If a student has earned a master's degree, a GPA of 3.00 or higher is required (the undergraduate GPA is not considered);
- TOEFL test results with scores no less than 550, or 213 on computer-based tests (if applicable);
- Résumé and two letters of recommendation to be used in reviewing CIT-related work. For the two letters of recommendation, at least one should come from an individual who can attest to the applicant's work experience; the second letter may be from an individual who can attest to the applicant's academic ability and commitment.

All applications and official transcripts must be submitted for processing to the Graduate Admissions Office, Davidson Hall, Room 115, along with a \$50 application fee.

Additional criteria for admission to the program are as follows. Items requested below should be sent to the MS-CIT Director's office, Maria Sanford Hall, Room 312, Central Connecticut State University, New Britain, CT 06050.

Applicants selecting the MIS specialization must also earn a total score of 500 or higher on the GRE or GMAT. Additionally, applicants selecting the MIS specialization must achieve a score of 3.5 or higher on the analytical writing section of the GRE or the GMAT.

Please note that students wishing to change their specialization to MIS after beginning the MS-CIT program in one of the other two specializations must have taken the GRE or GMAT and earned a total score of 500 or higher, as well as achieved a score of 3.5 or higher on the analytical writing section of the GRE or the GMAT in order to have their specialization changed.

Applicants should have the GRE or GMAT scores sent to the Graduate Admissions Office, Lawrence J. Davidson Hall, Room 115, Central Connecticut State University, New Britain, CT 06050.

Applicants are also required to send an unofficial copy of the GRE or GMAT score to the MS-CIT Director's office, Maria Sanford Hall, Room 312, Central Connecticut State University, New Britain, CT 06050.

Conditional Admission

A student may be admitted conditionally if it is determined that additional course work is needed. The additional coursework will be specified for the applicant and must be completed with a grade of B or better before full admission into the MS-CIT program.

Applicants without the required GPA will not be admitted to the MS-CIT program. Applicants without the required scores on the GRE or GMAT will not be conditionally admitted to the MS-CIT: MIS specialization.

Notification Process

Confirmation of the MS-CIT Committee's admission recommendation will be electronically sent to the MS-CIT Admissions Committee members, the MS-CIT program director, the Dean of the School of Graduate Studies, and the Associate Director of Graduate Admissions. Records and applications then will be filed in the director's office. Final acceptance notification will come from the Dean of the School of Graduate Studies after all necessary supporting documents have been evaluated.

Students admitted into the program will be assigned advisors based on their indicated specialization. The advisor is responsible for monitoring the student's progress towards degree completion. The student and the advisor are responsible for keeping the planned program form current. The student should bring requests for substitutions and transfer credits to the attention of the advisor who subsequently must obtain approval and signatures from MS-CIT faculty members representing the other two specializations and from the Dean of the School of Graduate Studies. When approved, such forms will be filed at the Graduate office. Students may not register for any courses without first meeting with the advisor who will check knowledge of necessary background areas.

Program

MASTER OF SCIENCE IN COMPUTER INFORMATION TECHNOLOGY 33 credits

Core Courses (18 credits):

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|--------|---|
| CS 501 | Foundations of Computer Science |
| CS 502 | Computing and Communications Technology |

MIS 501	Managing the IT Value Proposition
MIS 502	Business Payoff of Information Technology and Systems
CET 501	Applied Networking Technology
CET 533	Digital Telecommunications

Specialization (12 credits):

Students select 12 credits from one of the three following specializations in consultation with an advisor.

Specialization 1 — Computer Science electives:

CS 407, 410, 423, 460, 462, 463, 473, 481, 490, 530, 550, 570, 580, 590

Specialization 2 — MIS electives:

MIS 510, 515, 550, 561, 565, 569

Specialization 3 — Networking and Telecommunications Technology electives

(Computer Electronics and Graphics Technology Department):
CET 443, 449, 453, 479, 502, 513, 543, 559; IT 502, 510, 551, 594, 596

Capstone (3 credits):

Students may register for the Special Project (Plan C) course upon completion of core requirements and at least three specialization courses.

CIT 595 Capstone in CIT

Note: A maximum of 6 credits at the 400-level is allowed with prior permission of advisor.

INTERNATIONAL AND AREA STUDIES

The George R. Muirhead Center for International Education was designated as a Center for Excellence in International Education in 1986, and the University has developed a wide variety of programs and initiatives that support this aspect of its mission. The continuing enrichment, expansion and refinement of the Master of Science in International Studies result from the institution's established commitment to global awareness. The six courses which comprise the program core are designed to deepen and extend knowledge of present

and past world affairs, social perspectives and human nature, communication skills in multinational affairs, personal values and cultural traditions.

The balance of the master's program in international studies (15 credits) is individually designed by students and their faculty advisors to ensure that career plans and research interests are accommodated. If a student wishes to travel or work in a different country, these preferences may receive consideration within the program's scope. Another approach involves graduate course selection from a variety of disciplines, including modern languages, history, geography, political science, economics, anthropology, religion, communication and others, provided at the University to develop specializations with a global or theoretical orientation. Students may also focus on an area of the world such as Africa, East Asia, Latin America, the Middle East and Eastern or Western Europe.

To ensure adequate preparation for a career or further study in international affairs, language competency related to the area of specialization is required. Mid-level reading, writing, speaking and comprehension skills may be demonstrated by examination or through appropriate course work.

Faculty

International Studies Program Director:
Dr. Evelyn Newman Phillips (832-2617)

African Studies: C. Charles Mate-Kole (Coordinator, Psychology Dept., and Director, Center for Africana Studies), Ali Antar, Carol Austad, Zakari Bello, Walton Brown-Foster, James Buxton, Carol Carter-Lowery, Tennyson Darko, Ghassan El-Eid, Gloria Emeagwali, Parker English, Sheri Fafunwa-Ndibe, Beverly Johnson, Grace Kennedy, Peter Kyem, Peter LeMaire, Andrew Moemeka, Segun Odesina, Peter Osei, Warren Perry, Evelyn Newman Phillips, Timothy Rickard, Segun Sogunro (Phone: 832-3105)

East Asian Studies: Mark Jones (Coordinator, History Dept.), Gavro Altman, Mark Jones, Yanan Ju, Ki Hoon Kim, Cheng Sing Lien, Joseph McKeon, Paul Petterson, Xiaoping Shen (Phone: 832-2819)

European Union/West European

Studies: Angela Morales (Coordinator, Modern Languages Dept.), Louis Auld, Richard Benfield, Mitchell Charkiewicz, Peter Kilduff, Paloma LaPuerta, Maria Passaro, Carmela Pesca, Laurence Petit, Paul Petterson, Timothy Rickard, Karen Ritzenhoff (Phone: 832-2887)

Latin American Studies: Katherine Sugg (Coordinator, English Dept.), Abigail Adams, Walton Brown-Foster, Gloria Caliendo, Francisco Donis, Ronald Fernandez, Antonio Garcia-Lozada, Mary Ann Mahony, Gustavo Mejía, Serafin Méndez-Méndez, Cynthia Pope, Misés Salinas, Lilián Uribe (Phone: 832-2760)

Middle Eastern Studies: Ali Antar (Coordinator, Physics and Earth Sciences Dept.), Fatemah Abdollahzadeh, Nidal Al-Masoud, Aram Ayalon, Karen Beyard, Anthony Cannella, Ghassan El-Eid, Gloria Emeagwali, Farid Farahmand, Joseph McKeon, Norton Mzvinsky, Timothy Rickard, Nanjundiah Sadanand, Leyla Zdani-Eroglu (Phone: 832-2932)

Slavic/East European Studies: Richard Benfield (Coordinator, Geography Dept.), Gavro Altman, Jay Bergman, Mieczyslaw Biskupski, Matthew Ciscel, Paul Karpuk, David Kideckel, Brian Sommers, Jaroslaw Strzemien, Ewa Wolynska (Phone: 832-2879)

Program Overview

A multidisciplinary program leading to the Master of Science in International Studies, for students who wish either to study a specific area of the world, such as Africa, East Asia, Latin America, the Middle East, Western Europe or Eastern Europe, or to develop a program with a global, theoretical or conceptual perspective, is offered through the International and Area Studies Committee.

Program

30 credits in International Studies (Plan A, Plan B or Plan C)

Common Core (15 credits; take 5 of the following):

IS 570 Modern World Issues
IS 571 International Diversity and Integration

COMM 543 Intercultural Communication
GEOG 544 The Geography of World Economic Development

- LING 515 An Introduction to Sociolinguistics
- PS 501 Advanced Studies in International Law

Specialization (9 credits):

Approved courses in one of African Studies, East Asian Studies, European Union/West European Studies, Latin American Studies, Middle Eastern Studies or Slavic/East European Studies; or approved courses to constitute a cohesive specialization with a global, theoretical or conceptual perspective.

Research and Capstone Requirements (6 credits):

- Plan A: IS 598 Research in International Studies and IS 599 Thesis in International Studies
or
- Plan B: IS 598 Research in International Studies, comprehensive exam and three credits of directed electives
or
- Plan C: IS 598 Research in International Studies and IS 595 Special Project in International Studies

Note: No more than nine credits at the 400 level, as approved by the graduate advisor, may be counted toward the graduate planned program of study.

Language Requirement

The International Studies program requires that all students have a level of proficiency in reading, writing, speaking, and understanding of a single modern language—preferably in their area of geographical specialization—equal to the completion of the 226 level. Fulfillment of this requirement will be determined by a CCSU instructor of the language and/or the chair of the Modern Language Department.

Advisors

Initially, on acceptance to the program, students are assigned to the International Studies Curriculum Coordinator for advice. As soon as possible students will be assigned an advisor appropriate to their regional or thematic specialization. This advisor will normally serve as the faculty member supervising the advisee’s IS 598 course and thesis, special project or comprehensive examination.

PRE-HEALTH STUDIES

A Pre-Health Professional Advisory Committee is available to assist students interested in preparing for careers in medicine, dentistry, veterinary medicine, optometry and related fields in the health sciences for which undergraduate training is required prior to admission to other institutions. The Pre-Health Professional Advisory Committee consists of faculty members from the departments of Biology, Biomolecular Sciences, Chemistry, Physics, and Psychology.

Students interested in pre-health Professional Programs should consult Dr. Peter Osei, program coordinator for the health professions, Department of Biology, NC 339 (832-2657), and Dr. Cheryl Watson, chair of the Pre-Health Professional Advisory Committee, Department of Biomolecular Sciences, NC 344 (832-2649). Additional information is available at <http://www.prehealth.ccsu.edu>.

Program Overview

This non-degree certificate program is designed for college graduates whose undergraduate background does not meet the requirements for admission to professional schools of medicine, dentistry, veterinary medicine, etc. This rigorous program provides post-baccalaureate students a formal option to matriculate into a program with the foundation courses and the advisement they need to prepare for applying to professional training schools.

Admission

Students must have completed a bachelor’s degree to participate in the program. Potential students should contact the Graduate Admissions Office to request an application packet. The application requires official transcripts from all colleges and universities attended and an essay describing why the student is interested in the program. Completed applications should be sent through the Graduate Admissions Office. The Pre-PAC chair will schedule an interview with the applicant, during which an advisory committee (including the Chief Health Professions Advisor) will work with the candidate to develop an individualized planned program of study in keeping with his or her academic background and professional goals.

To begin the program during the summer session, applications must be received by April 15. If students wish both to begin during the summer session and to be considered for financial aid, applications must be received by January 15. However, students may begin the program in any semester and applications will be accepted throughout the year within the graduate admission deadlines of July 1 and December 1. Postbaccalaureate certificate students are classified as graduate students; they may be either part-time or full-time and may qualify for financial aid. Only students matriculated as full-time may take nine or more credits a semester. Part-time and nonmatriculated students are limited to less than nine credits/semester.

Program Requirements

While each student’s academic program will be tailored to meet the individual’s specific academic needs and professional goals, a model program that would be appropriate for a student with a minimal science background is shown below. This model program also illustrates the 45-credit upper limit for this certificate program. Smaller academic programs may be possible for students with some science background, with a lower limit of 26 credits. **All individual programs must be designed and approved in consultation with the Pre-PAC advisory committee at the admission interview.** A minimum of 18 credits in the planned program must be taken at CCSU.

Program

OFFICIAL CERTIFICATE PROGRAM: POST-BACCALAUREATE CERTIFICATE IN PRE-HEALTH STUDIES

**Model Program*
45 credits**

- Life Science (21 credits), including:
 - BIO 122 General Biology II
 - BMS 201 Principles of Cell and Molecular Biology
 - BMS 306 Genetics
or
 - BMS 316 Microbiology
 - BIO 318/ Anatomy and Physiology I
BMS 318
 - BIO 490 Topics in Biology
or
 - BMS 490 Topics in Biomolecular Sciences
 - BIO 319/ Anatomy and Physiology II
BMS 319
or

BIO 412/413/ Human Physiology
BMS 412/413

Chemistry (16 credits), including:

CHEM 161 General Chemistry I

CHEM 162 General Chemistry I
Laboratory

CHEM 163 General Chemistry II

CHEM 164 General Chemistry II
Laboratory

CHEM 210 Organic Chemistry I

CHEM 211 Organic Chemistry I
Laboratory

CHEM 212 Organic Chemistry II

CHEM 213 Organic Chemistry II
Laboratory

Physics (8 credits) including:

PHYS 121 General Physics I

PHYS 122 General Physics II

*For course descriptions and prerequisites for courses numbered lower than 400, please see the Undergraduate Catalog.

Students must maintain a 3.00 (B) cumulative grade point average in order to be in good academic standing and to receive the post-baccalaureate certificate. Upon completion of the planned certificate program, a certificate will be issued from the School of Graduate Studies. (While completion of this program does not lead to a graduate degree, courses at the 400 level or above that are taken as part of this program may be counted toward a master's degree upon the approval of a program advisor, provided that the graduate-syllabus option is elected at the time of course registration in 400-level courses.)