Context

The Computer Science Department currently offers three degree programs in computer science (Bachelor of Science, Master of Science, and PhD) and a double-diploma bachelor's program in information systems with Istanbul Techni

leadership positions. Within the Binghamton area, we would expect graduates of the program to be of interest to employers such as Lockheed-Martin and UHS. Within New York State, many financial services companies would likely have great interest.

Provide a new employment pathway for more Binghamton University students. The proposed program is designed to accommodate undergraduates from liberal arts, science and engineering disciplines via a series of bridge courses or some of the undergraduate courses currently available to CS minors. We expect the master's program in Information Systems to be of value to BS and MS graduates from a variety of majors on Binghamton University campus, as it empowers them to pursue a wider job market.

Help reach the graduate enrollment goals of the university. Growing graduate enrollment has been a strategic goal of Binghamton University since President Stenger became the president of the university in 2012. The Computer Science Department has been one of the driving forces behind the university's graduate enrollment growth during this time. Graduate enrollment of the Computer Science Department nearly doubled during this time – from 235 in 2012 to 445 in 2019. The proposed MSIS program has the potential to become another graduate enrollment growth engine for both the Department and the university. In five years, this program is expected to have 160 students.

Help further the growth of the Computer Science Department. The Department's most recent strategic plan (2018-2023) calls for an aggressive growth in terms of new degree programs, faculty and staff, as well as students, especially graduate students. We believe that the planned growth can enhance the profile and reputation of the department nationally and internationally and it can also improve its ranking among its peers. Starting the proposed MSIS program is a significant part of this overall growth.

Teaching

By offering the MSIS program, students will have opportunities to receive high-quality instruction on the design, integration, and use of large information systems. The courses have been designed to provide practical, hands-on experiences, allowing students to be prepared for the work opportunities available now, while also being well equipped to adapt to the changes that will come. Students in the MSCS can also benefit from the option of taking some of the more practical MSIS courses as electives. Some of the courses of the MSIS program, especially electives, will be taught by existing faculty of the department while planned hires will include instructors with a primary focus on courses in information systems.

Research

The research conducted by the tenure-track faculty hired to teach courses in the MSIS Program will help expand the research areas of the Computer Science Department and help create new research synergies within the Department.

Community Service

Large information systems occur in many fields. We anticipate collaboration with local health care providers (e.g., United Health Services), as they expand their use of electronic record keeping. Several

Enrollment Schedule

The following table summarizes our planned enrollment schedule over the first five years of the proposed MSIS program.

credits)					
OOS <12 credits		30	37.5	45	52.5
OOS FT TUITION	$23,100	$23,100	$23,100	$23,100	$23,100
OOS FT $	$693,000	$1,559,250	$1,905,750	$2,252,250	$2,598,750
OOS PT $ (FT Tuition * .10)		$2,310	$2,310	$2,310	$2,310
OOS TUITION COLLECTED	$693,000	$1,561,560	$1,908,060	$2,254,560	$2,601,060
NYS FT (>= 12 credits)	10	12.5	15	17.5	20
NYS <12 credits		10	12.5	15	17.5
NYS FT TUITION	$11,350	$11,350	$11,350	$11,350	$11,350
NYS FT $	$113,500	$141,875	$170,250	$198,625	$227,000
NYS PT $ (FT Tuition * .10)		$1,135	$1,135	███████	

termination project course; on the advice of the external evaluators, there is an emphasis on providing students with maximum flexibility in selecting courses that meet their interests. We anticipate that some students in the MSIS program will be working professionals, taking courses over a longer duration as time permits. As some students may enter the program without adequate background in computer science, there are two optional practicum courses designed to build computer science skills, and to complement the required courses taken during the first year.

This design is already in place as part of the proposal of the MSIS program. This design will be revisited 2-3 years after the launch of the program to see if any change should be made. By that time, the first batch of students would have graduated from the program.

Course Development

The proposed program has a number of new courses. The proposal includes preliminary syllabi for all of these new courses. After the program gains final approval, there is a need to fully develop these syllabi and have the courses approved by the Graduate Council. The faculty members who will be hired to teach these courses should help shape the syllabi of the courses. We plan to offer these courses initially as special topics courses, which do not need the approval of the Graduate Council, and make them permanent afterwards. In this way, the new faculty members can help finalize the course syllabi.

Recruitment

The expected student body for the MSIS program will be reflective of students recruited regionally, nationally, and internationally. However, we anticipate the enrollment to a substantial number of students from New York State and the northeast region.

We plan to advertise the program both on campus and off campus as well as in taon. 3 445.99 Tm00229(subst)-3

application and enrollment. We will work with the graduate recruiting team in the Thomas J. Watson School of Engineering and Applied Science to organize events on campus, such as open house and informational presentations, to get students from diverse background interested. We will continue to utilize scholarship programs such as the Clifford D. Clark Fellowship program and the GEM fellowship program to encourage qualified URM undergraduate students to apply and enroll. We will also work with the Division of Diversity, Equity and Inclusion to help recruit URM students.

We feel confident that we can recruit a class of 40 full-time students in the first year and also meet the enrollment targets for future years. First, the society has a great demand for information systems professionals and jobs are available in this field so the program can naturally attract students. Secondly, we already have potential application pools for this program. For the past three years, the Computer Science Department has received approximately 1,000 MS applications each year. Out of these applicants, 25% did not have the necessary bac

With personnel searches for the MSIS program, the Computer Science Department will encourage applications from women and underrepresented minorities, to build a diverse and vibrant faculty. The department has been actively working to recruit faculty members from women and URM groups. To enhance our effort, a subcommitt6.2x-2ncef4(nx[e)4-2fETTm[0 1s3(e)4(sub)-10([ )]c)4-5(bc)-5()4(ssubm)4()10fro

Course Title (Required Courses)	Track	Credits	Potential Faculty
IS501 Information Systems I (New)			