SUBSTANTIVE CURRICULAR CHANGE FOR ROUTINE REVIEW

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Sponsoring Institution: Missouri University of Science and Technology

Program Title: MS Information Science Technology (MS IST)

Degree/Certificate: MS-Master of Science

If other, please list: Click here to enter text

Options: Click here to enter text

Delivery Site: Missouri S&T and via online learning

CIP Classification: 11.0401

Implementation Date: 8/1/2024

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.
  Pre-reqs include calculus, statistics, programming, data structures, databases, computer organization and architecture, GRE scores must be 300 combined with an analytical writing of 3.0, and a GPA of at least 3.0

- Characteristics of a specific population to be served, if applicable.
  This program is currently more than 90% international, on campus, students.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
  Appropriate HLC and AACSB qualified faculty

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.
  At least 80%

- Expectations for professional activities, special student contact, teaching/learning innovation.
  Hands on learning in the classroom, guest lectures and networking events will all be provided to prepare students for their transition into the job market.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
  Currently we have 61 MS IST students (split 33 on campus and 28 distance). We had intended to grow to 80 (45 on campus and 35 distance).

- Percent of full time and part time enrollment by the end of five years.

60% Full time and 40% Part time

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	33	35	40	43	48
Part Time	28	30	30	32	32
Total	61	65	70	75	80

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
  70 students per year at the three year mark, and 80 students at five years

- Special skills specific to the program.
  Will take the opportunity to take courses in a variety of IT areas such as cybersecurity, analytics, machine learning, and data warehouses.

- Proportion of students who will achieve licensing, certification, or registration.
  None, no licensure or certification required for industry employment

- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
  No assessments required of graduates

- Placement rates in related fields, in other fields, unemployed.
  Over 90% placement in a variety of companies (as reported by COER for the last 2 years). Most recent salary average was $100,666.67 for the 2022-2023 school year

- Transfer rates, continuous study.
  Since this is a masters of science degree, transfers are rare and usually accompanied by extenuating circumstances.

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.
  The MS IST is currently accredited with both the Higher Learning Commission and the Association to Advance Collegiate Schools of Business (AACSB). AACSB has been consulted on the changes and we believe these changes will not cause any issues that may prohibit reaccreditation for AACSB in the next cycle (2028)

6. Program Structure

A. Total credits required for graduation: 30

B. Residency requirements, if any:
   none

C. General education: Total credits:
   none

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title

D. Major requirements: Total credits: 30

Course Number	Credits	Course Title
IST 6XXX or 5XXX or ERP 6XXX or 5XXX	12	Technology electives
6XXX courses in any of the following areas: IST, ERP, BUS, MKT, FIN	9	Upper-level BIT electives
6XXX or 5XXX courses in any of the following areas: IST, ERP, BUS, MKT, FIN	9	BIT electives

E. Free elective credits: Click here to enter text
(sum of C, D, and E should equal A)

F. Requirements for thesis, internship or other capstone experience:
if students choose the thesis option, they will need a minimum of 6 credit hours of research in lieu of BIT electives.

G. Any unique features such as interdepartmental cooperation:
Up to 12 credit hours can be taken outside the department with advisor approval.

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