0. Form NP – New Program Proposal Form

NEW PROGRAM PROPOSAL FORM

Sponsoring Institution(s): Northwest Missouri State University

Program Title: Information Systems

Degree/Certificate: Master of Science

Options: _____

_____

_____

Delivery Site(s): Northwest St. Joseph Center
(off-site only)

CIP Classification: 11.0101 (Please provide a CIP code)

Implementation Date: Fall 2016

Cooperative Partners: _____

Expected Date of First Graduation: December 2017

AUTHORIZATION

Timothy Mottet, Provost		November 30, 2015
Name/Title of Institutional Officer	Signature	Date

Gregory Haddock, Vice Provost	(660) 562-1145
Person to Contact for More Information	Telephone

1. Form OS - Off-Site Delivery of an Existing Program

OFF-SITE DELIVERY OF AN EXISTING PROGRAM FORM

Sponsoring Institution (s): Northwest Missouri State University

Program Title: MS - Information Systems

Degree/Certificate: Master of Science

Institution Granting Degree: Northwest Missouri State University

Delivery Site(s): Northwest St. Joseph Center

Mode of Program Delivery: face-to-face

Geographic Location of Student Access: Northwest St. Joseph Center

3500 North Village Drive

St. Joseph, MO 64506

CIP Classification: 11.0101 (Please provide a CIP code)

Implementation Date: August 2016
(Semester and Year)

Cooperative Partners: _____

AUTHORIZATION

Timothy Mottet, Provost		November 30, 2015
Name/Title of Institutional Officer	Signature	Date

Gregory Haddock, Vice Provost	(660) 562-1145
Person to Contact for More Information	Telephone

2. Need (Form SE - Student Enrollment Projections)

Student Demand:

i. Estimated enrollment each year for the first five years for full-time and part-time students (Please complete Form SE.)

Year	*1*	*2*	*3*	*4*	*5*
Full-time	60	120	217	217	217
Part-time	____	____	____	____	____
Total	60	120	217	217	217

ii. Will enrollment be capped in the future?

At this stage enrollment is capped at 217 at the third year due to space availability at the St. Joseph Center. The present return on investment analysis used that number to cap the program before considerations of more space needs were addressed.

What method(s) or data were used to project student enrollment for this proposed program?

Our purpose in creating this program is to compete at a national level for students. Our primary focus will be students from south Asia, specifically India. Northwest has targeted recruitment in south Asia for over ten years and has recruited close to 500 students to maryville in graduate programming. The Vice Provost and the Director of International Affairs have worked closely with international recruiters in the states of Telangana and Andhra Pradesh in southern India to benchmark a nationally competitive program.

Our primary competitors are the University of Nebraska-Omaha, Northern Illinois University, University of Houston-Clear Lake, Grand Valley State University, University of Bridgeport, University of Cincinnati, Kent State University, and Wright State University among others. The Vice Provost is currently planning a seventh recruitment trip to the region and has recruited alongside many of these universities since 2012. Some of these programs are STEM-based, and some are Management related. We are seeking STEM alignment which adds the attraction of the currently proposed OPT extensions for jobs after completion.

A. Market Demand:

. National, state, regional, or local assessment of labor need for citizens with these skills

2. Need (Form SE - Student Enrollment Projections)

The program has a Broad curriculum with instruction on topics that an Information Systems (IS) or Information Technology (IT) manager needs to be effective. The job outlook in information technology and information systems is positive as "employment of computer and information systems managers is projected to grow 15 percent from 2012 to 2022, faster than the average for all occupations."

International students, specifically from India, understand this demand and will readily fill available spots. Competitor universities across the country have already begun programs and enrollments are strong. The latest indicator of surging Indian enrolment in US education comes in the form of the August 2015 SEVIS by the Numbers report from the US government. Combined with data presented via a new interactive mapping tool, the figures show that the number of Indian students in the US grew from 113,649 in July 2014 to 149,999 in July 2015 – for a year-over-year increase of 31.98%.

B. Societal Need:

i. General needs which are not directly related to employment

Attracting international students to this area of the state will contribute to economic development in the state and region. An estimated 10% of the graduates will remain in the state to work after degree completion.

Satisfying the STEM area employment needs helps the region and state have a diversified economy that attracts companies needing those positions. Eventually this raises the taxbase of a city or region that is hiring such positions

C. Methodology used to determine "B" and "C" above.

http://www.bls.gov/ooh/management/computer-and-information-systems-managers.htm
In-country assessment of the demand for information management graduate programs in cities such as Hyderabad, Warangal, Guntur, Vijayawada, Visakhapatnam, and Chennai. This involves consular visits in both Hyderabad and Chennai as well as consultation with a dozen educational consultants.

3. Duplication and Collaboration: (Form CL – Collaborative Programs)

If similar programs currently exist in Missouri, what makes the proposed program necessary and/or distinct from the others at public institutions, area vocational technical schools, and private career schools?

Missouri Western has a Masters in Information Management with a concentration in Enterprise Resource Planning (CIP:110199) and a Master of Science in Information Technology Assurance Administration (CIP:11.1003). The management degree in the Craig School of Business is a very specialized program seeking credentials in ERP. The IT Assurance Administration program is offored by the Department of Computer Science, Math & Physics and has a specialized focus on security including certification exam preparation. However, Northwest is not seeking to compete head to head with related or similar programming at Missouri Western. A heightened hub of international enrollment in the St. Joseph area will benefit the city as a regional supplier of computing specialists in a diverse array of programming.

Does delivery of the program involve a collaborative effort with any external institution or organization?

No (If yes, please complete Form CL.)

3. Program Structure: (Form PS - Program Structure)

PROGRAM STRUCTURE

A. Total credits required for graduation: 36

B. Residency requirements, if any: N/A

C. General education: Total credits: N/A

Courses (specific courses OR distribution area and credits):

D. Major requirements: Total credits: 36

44-623 Information Technology Management (3)

44-617 Information Systems Analysis and Design (3)

44-641 Developing Object-Oriented Systems with Java (3)

44-660 Database Design and Implementation (3)

44-651 Enterprise Networking and Internetworking (3)

44-662 User Centered System Design and Evaluation (3)

44-652 Cybersecurity and Information Security Management (3)

44-654 Professionalism in the IS Environment (3)

44-618 Project Management for Business and Technology (3)

44-638 Financial Modeling and Decision Making for IT (3)

44-632 Business Intelligence and Analytics (3)

44-693 Management Information Systems Capstone Project (3)

E. Free elective credits: 0 (Sum of C, D, and E should equal A.)

F. Requirements for thesis, internship or other capstone experience:

44-693 will have capstone project including required graduate research component.

G. Any unique features such as interdepartmental cooperation:

N/A

5. Program Characteristics and Performance Goals: (Form PG).

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name: Northwest Missouri State University

Program Name: M.S. Information Systems

Date: November 30, 2015

(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.)

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.

  Completion of a undergraduate degree from an accredited college or university with an undergraduate grade point average of 2.75 on a 4.0 scale. Applicants are expected to have a major or minor in an information systems, computer science, business, or engineering discipline, including coursework in: a. Information systems, b. Statistics, c. STEM field, d. GRE 285

- Characteristics of a specific population to be served, if applicable.

  Students graduating from engineering, IT, and computer science bachelors degrees in southern India will be the specific population. Hyderabad leads India in visas to the United States (roughtly 30% in any given year).With over 30,000 eligible degree seekers from this region alone the market is good to develop another program in this area.

Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

  Our faculty teaching in the program will adhere to the HLC guidelines for qualified faculty following Assumed Practice B.2.b in which faculty with terminal degrees will teach in this graduate program. We are not proposing to follow the minimally qualified basis of using Tested Experience.

- 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.

  100% full-time faculty expected.

- Expectations for professional activities, special student contact, teaching/learning innovation.

5. Program Characteristics and Performance Goals: (Form PG).

Students will complete a project that will prepare them for the soft and hard skills in the workplace.

Enrollment Projections

- Student FTE majoring in program by the end of five years.

  217 FTE

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

  100% full-time students

Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.

  80-90 graduates per year at the three and five year period.

- Special skills specific to the program.

  Computing background with baccalaureate degrees in computer science, information technology, and various other technical and engineering degrees.

- Proportion of students who will achieve licensing, certification, or registration.

  no certification anticipated

- 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.

  N/A

- Placement rates in related fields, in other fields, unemployed.

  We seek to follow the placement rates of the highly successful MS in Applied Computer Science program. The past four years have shown high placement, most recently 100% with over 80% of the graduates responding:
  http://www.nwmissouri.edu/careerserv/PDF/PlacementReport.pdf#page=61

- Transfer rates, continuous study.

  N/A

6. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide reasons.

  There are no plans for specialized accreditation for this program.

Alumni and Employer Survey

5. Program Characteristics and Performance Goals: (Form PG).

- Expected satisfaction rates for alumni, including timing and method of surveys

  We will be very interested to learn from our first co-horts what worked best and what could be improved and will plan to survey each completer class. This will be surveying twice a year for the first 2-3 years.

- Expected satisfaction rates for employers, including timing and method of surveys

  Our employers have been very satisfied with our graduates in the Applied Computer Science program and we seek similar satisfaction with this program.

7. Institutional Characteristics: Please describe succinctly why your institution is particularly well equipped or well suited to support the proposed program.

The institution has tripled international enrollment in the past three years and expanded our international recruitment efforts. The faculty in the Computer Science and Information Systems area have over ten years of experience educating computing specialists in our Applied Computer Science MS program. Placement has been close to 100% every year with starting salaries averaging $61,000. We will take knowledge gained from this experience to fast-track a program to over 200 students in three years.

8. Any Other Relevant Information:

proposed catalog copy attached

Appendix – Proposed Catalog Copy

Catalog (Current)	Catalog (Proposed)

Course Description: The Master of Science in Management Information Systems offers students with a background in information systems the opportunity to increase their technical expertise and managerial exposure. Students can increase their knowledge in computer programming, network security and administration, analytics, HCI, database, project management, systems analysis and design, and financial modeling. Students will also develop their professionalism skills with practice and instruction in communication, teamwork, and ethics. A one-semester capstone project gives students the chance to apply their knowledge.

This program is a cohort-based program with new intakes in the fall and spring trimesters. Students entering this program would be full-time students taking 9 credit hours for four semesters (including summer). Students who successfully complete each class on their first attempt can expect to finish this program in 16 months.

Candidates for the M.S. in Management Information Systems should meet the following requirements:

1. Compliance with all of the eligibility requirements of the graduate school.
2. Acceptance to graduate study by the Dean of the Graduate School.
3. Completion of a four-year undergraduate degree from an accredited college or university with an undergraduate grade point average of 2.75 on a 4.0 scale. Applicants are expected to have a major or minor in an information systems, computer science, business, or engineering discipline, including coursework in:
    a. Information systems
    b. Statistics
    c. STEM field
4. GRE 285

Applicants who do not meet these requirements may be admitted provisionally. The Computer Science/Information Systems area reserves the right of final decision in accepting students to graduate degree candidacy in the department. Criteria for admittance to the program and acceptance to degree candidacy may include academic qualifications and performance, number of applicants, and available resources.

Major Requirements Total hours – 36 hours

44-623	Information Technology Management (3)
44-617	Information Systems Analysis and Design (3)
44-641	Developing Object-Oriented Systems with Java (3)
44-660	Database Design and Implementation (3)
44-651	Enterprise Networking and Internetworking (3)
44-664	Human-Computer Interaction (3)
44-652	Cybersecurity and Information Security Management (3)
44-654	Professionalism in the IS Environment (3)
44-618	Project Management for Business and Technology (3)
44-638	Financial Modeling and Decision Making for IT (3)
44-632	Business Intelligence and Analytics (3)
44-693	Management Information Systems Capstone Project (3)