NEW PROGRAM PROPOSAL FORM

Sponsoring Institution(s): Lindenwood University

Program Title: Managing Virtualization and Cloud Computing

Degree/Certificate: Master of Science

Options: None

Delivery Site(s): St. Charles

CIP Classification: 521299

*CIP code can be cross-referenced with programs offered in your region on MDHE's program
inventory highered.mo.gov/ProgramInventory/search.jsp

Implementation Date: October 1, 2014

Cooperative Partners: Click here to enter text.

*If this is a collaborative program, form CL must be included with this proposal

AUTHORIZATION:

Jann Weitzel	*[signature]*	7/25/14
Name/Title of Institutional Officer	Signature	Date

Jann Weitzel	636-949-4846	Click
here to enter text.		
Person to Contact for More Information	Telephone	

STUDENT ENROLLMENT PROJECTIONS

Year	1	2	3	4	5
Full Time	56	112	168	224	280
Part Time	0	0	0	0	0
Total	56	112	168	224	280

BS in Business Systems Development

Please provide a rationale regarding how student enrollment projections were calculated:

14 new enrollees per quarter (a maximum cohort size)

Provide a **rationale** for proposing this program, including **evidence of market demand and societal need supported by research:**

Computer and information systems managers, often called information technology (IT) managers or IT project managers, plan, coordinate, and direct computer-related activities in an organization. They help determine the information technology goals of an organization and are responsible for implementing computer systems to meet those goals. The median annual wage for computer and information systems managers was $120,950 in May 2012. Employment of computer and information systems managers is projected to grow 15 percent from 2012 to 2022, faster than the average for all occupations. Demand for computer and information systems managers will increase as firms continue to expand their use of wireless and mobile networks.*

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Form SE - Student Enrollment Projections

* From Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2014-15 Edition

Saint Louis Companies Now Hiring IT Professionals

NetEffects, Inc. (95)	CSC (44)
Enterprise Rent-A-Car (84)	World Wide Technology, Inc. (44)
Best Buy (62)	Washington University in St. Louis (41)
Boeing (53)	Express Scripts (39)
PDS Technical Services (52)	CenturyLink Technology Solutions (23)
Target (49)	Belcan TechServices (11)
General Dynamics - IT (48)	Express Scripts (11)
Charter Communications (46)	Lumeris (8)
MasterCard (45)	United States Army (8)

Saint Louis Locations Where Open Jobs Exist

St. Louis, MO (2219)	Creve Coeur, MO (54)
Scott AFB, IL (147)	Arnold, MO (54)
Chesterfield, MO (94)	Saint Charles, MO (50)
Maryland Heights, MO (73)	Saint Peters, MO (45)
O'Fallon, MO (62)	Clayton, MO (44)
Fairview Heights, IL (58)	Hazelwood, MO (43)
O'Fallon, IL (57)	Earth City, MO (35)
Bridgeton, MO (55)	

A. Total credits required for graduation: <u>57</u>

B. Residency requirements, if any: <u>None</u>

C. General education: Total credits: <u>None</u>

Courses (specific courses OR distributions area and credits):

REQUIRED CURRICULUM

Graduate Project Management Cluster
IIT 53100 Scheduling, Cost Control and Estimating Models (3)
IIT 53200 Implementing a Management Control System (3)
IIT 53300 System Approach to Software Management (3)

Graduate Managerial System Integration Cluster
IIT 54100 Database Integration and Management (3)
IIT 54200 New Technology Integration (3)
IIT 54300 Enterprise Resource Planning (ERP) (3)

Graduate Management Cluster
IBA 54000 Management & Administrative Theory (3)
IBA 54100 Organizational Behavior (3)
IBA 54300 Personnel Management and Labor Relations (3)

Graduate Data Acquisition and Management Cluster
IIT 55100 Data Warehousing and Mining (3)
IIT 55200 Data Warehousing Systems Management (3)
IIT 55300 Extract, Transform & Load (ETL) (3)

Graduate Virtualization Architecture Management Cluster
IIT 55500 Data Center and Cloud Architecture (3)
IIT 55600 Applications and Services Best Practices (3)
IIT 55700 Virtualization Project (3)

Students must also complete the Graduate Information Technology Capstone course, IIT 60100 Information Technology Capstone (3)

E. Free elective credits:
<u>None</u>
(Sum of C, D, and E should equal A.)

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

Graduate Information Technology Capstone course, IIT 60100 Information Technology Capstone (3)

Prerequisites: Must be taken in last quarter or concurrent with last cluster.

G. Any unique features such as interdepartmental cooperation:

There are not any unique features requiring cooperation with other departments.

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name   Lindenwood University
Program Name   Managing Virtualization and Cloud Computing
Date   7/25/14

(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.
  No special preparation is required beyond those of the LCIE requirements.

- Characteristics of a specific population to be served, if applicable.
  LCIE students are adults age 23 and above who are working adults.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
  Faculty must hold a terminal degree in the discipline taught, or be professionally qualified with a Master's degree in the discipline taught and have teaching 2 years teaching experience at the college level or 10 years professional experience in the discipline taught.

- 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.
  Full time faculty teach 27 credit hours annually.

- Expectations for professional activities, special student contact, teaching/learning innovation.
  Full time faculty are expected to attend professional development workshops delivered by the university and outside agencies multiple times annually, serve on college and university level committees, advise students in academic and professional matters, and develop and maintain the quality and rigor of the academic offerings.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
  The FTE projection at the end of 5 years will be 280.

- Percent of full time and part time enrollment by the end of five years.
  LCIE traditionally does not have part time enrollees as students are enrolled by cluster in a quarter format. Therefore, the expectation would near 100%, except in rare situations.

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
  Due to the accelerated format of LCIE, most Master students graduate in 15 or 18 months.

- Special skills specific to the program.
  Students will be required to solve problems by critically observing their environment, communicate professionally in all written, oral, and electronic formats, and work efficiently in teams to solve problems and create solutions.

- Proportion of students who will achieve licensing, certification, or registration.
  The program is not designed to prepare students for licensing, certification, or registration, but, to work effective and productively in a professional environment.

- 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.
  Assessments will be developed to include portfolio review, graduate surveys and assessments, and employer surveys.

- Placement rates in related fields, in other fields, unemployed.
  With the extensive growth of the industry expected a high number (possibly over 90%), students will be placed in related fields upon graduation.

- Transfer rates, continuous study.
  Transfer rates to not apply to this program.

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 a rationale.**
  No specialized accreditation will be sought at this time.

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Form PG – Program Characteristics and Performance Goals

6. Alumni and Employer Survey

- Expected satisfaction rates for alumni, *including timing and method of surveys.*
  LCIE surveys Alumni at a minimum of annually. It also holds alumni focus groups to gauge quality and applicability of degrees.

- Expected satisfaction rates for employers, including timing and method of surveys.
  LCIE surveys Employers at a minimum of annually. It also holds employer focus groups to gauge quality and applicability of degrees. An advisory group will be developed to ensure quality and applicability of the program.

7. Institutional Characteristics

- Characteristics demonstrating why your institution is particularly well-equipped to support the program.
  The faculty, administration, and staff of Lindenwood University are dedicated to sustaining excellent educational programs and learning environments. Therefore, the university is committed to mission-based, comprehensive, and data-driven assessment for the purpose of continuous institutional improvement and effectiveness. The university is continually updating technology to stay on the cutting edge of the industry. For this program, a new, dedicated virtualization lab is being implemented by Fall 2014 to meet the demands of the new program.