

**New Graduate Program (Majors, Sequences, Certificates) Proposal  
Illinois State University - Graduate Curriculum Committee**

**Program Department** Technology

**Initiator** Klaus Schmidt

**Phone** 438-3502

**Initiator Department** Technology

**Coauthor(s)** None

**Title of New Program** Quality Management and Analytics Certificate

**Proposed Starting Catalog Year** 2015 Supplement

**Submission Date** Monday, November 10, 2014

**Email** kschmid@ilstu.edu

**Campus Address** 5100 Technology

**Version** 1

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**1. Proposed Action**

New Major

New Sequence

✓ New Certificate

More than 50% of courses in this program are Distance Education

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**2. Provide *Graduate Catalog* copy for new program.**

**Quality Management and Analytics Certificate:**

**The Quality Management and Analytics certificate introduces quality management tools to enhance customer and supplier relations, strategic planning, and measurement systems to improve overall organizational performance. Quantitative analytical modeling techniques will be applied to solve decision problems and risk situations faced by project managers. In addition, an overview of six sigma data-driven decision making methodologies will be introduced to gain insights into advanced quality based industrial management techniques.**

**This certificate requires successful completion with a grade of B or better in each of the following three courses: TEC 437, TEC 438, and TEC 439.**

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**3. Provide a description for the proposed program.**

The proposed certificate introduces quality management tools to enhance customer and supplier relations, strategic planning, and measurement systems to improve overall organizational performance. Students will learn and apply quantitative analytical modeling techniques to solve decision problems and risk situations faced by project managers. In addition, an overview of six sigma data-driven decision making methodologies will be introduced to gain insights into advanced quality based industrial management techniques.

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**4. Provide a rationale of proposed program.**

The three courses comprising this new certificate have been in existence for six years (previously as temporary courses). The courses have been in high demand and have helped recruit new and highly skilled graduate students to our department. The proposed sequence is a perfect supplement to the existing project management and training and development sequences. This new certificate would add a third strong pillar to the graduate education in our department. Based on the experience throughout the past 6 years (the courses were offered as temporary courses) students that successfully completed these three courses encountered excellent employment opportunities.

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**5. Describe the expected effects of the proposed program on existing campus programs (if applicable).**

No effects on any other programs on campus are expected since similar programs do not exist.

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**6. Describe the expected curricular changes required, including new courses. If proposals for new courses that will be or have been submitted, please reference those related proposals here:**

No curricular changes are required since no new courses are needed.

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**7. Anticipated funding needs and source of funds.**

No funding needed as courses have been scheduled and taught in throughout the past years.

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**8. Does this program count for teacher education? No**

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**9. The following questions must be answered.**

**N.A.** Have letter(s) of concurrence from affected departments/schools been obtained?

*A departments/school is affected if it has a program with significant overlap or if it teaches a required or elective course in the program.*

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**10. Routing and action summary for New Graduate Program: [Proposal Routing](#)**

**1. Technology Department Curriculum Committee Chair**

<i>Geoffrey Campbell (website)</i>	Geoffrey Campbell	11/10/2014 2:45:16 PM
Signature	Print	Date

**2. Technology Department Chair/School Director**

<i>Theodore Branoff (website)</i>	Theodore Branoff	11/10/2014 2:48:29 PM
Signature	Print	Date

**3. College of Applied Science and Technology College Curriculum Committee Chair**

<i>Adrian Lyde (website)</i>	Adrian Lyde	12/8/2014 2:58:30 PM
Signature	Print	Date

**4. College of Applied Science and Technology College Dean**

<i>Todd McLoda (website)</i>	Todd McLoda	12/9/2014 9:08:35 AM
Signature	Print	Date

**5. Graduate Curriculum Committee Chair**

<i>Denise Wilson (website)</i>	Denise Wilson	3/17/2015 10:31:46 AM
Signature	Print	Date

**6. Director of Graduate School**

<i>Amy Hurd (website)</i>	Amy Hurd	3/17/2015 10:33:19 AM
Signature	Print	Date

All new graduate programs (majors, sequences, certificates) are routed by the G.C.C. to the Academic Senate