

**LUMPKIN COLLEGE OF BUSINESS AND TECHNOLOGY
EASTERN ILLINOIS UNIVERSITY**

EA-LCBT- 19-20 Effective Fall 2019

TO: Council on Graduate Studies

FROM: Bill Minnis, Interim Dean

SUBJECT: EXECUTIVE ACTION

DATE: February 21, 2019

ACTION REQUESTED:

Change prerequisites:

MIS 4850 – Systems Security

MIS 4860 – Ethical Hacking and Network Defense

OSC 4810 – Supply Chain and Logistics Management

OSC 4820 – Business Analytics and Data Mining

EFFECTIVE DATE: Fall 2019

Lumpkin College of Business and Technology Executive Action Request

TO: Interim Dean, LCBT, William Minnis
FROM: Interim Chair/Associate Dean, School of Business, Denise Smith
DATE: February 21, 2019

ACTION REQUESTED:

To modify the prerequisites for several MIS classes in the MIS/OM discipline of the School of Business so that CIT majors in the School of Technology can take MIS classes that are applicable in their computer information technology degree program. The course coordinator of the CIT program suggested all the new CIT prerequisites for MIS classes modified by this executive action. In addition, the MIS/OM discipline of the School of Business is modifying the prerequisites for the OSC 4810 (Supply Chain and Logistics Management) and OSC 4820 (Business Analytics and Data Mining) classes so that students who have taken MAT 2250G (Introductory Statistics) can take these two OSC classes. We are proposing allowing either BUS 2810 (Business Statistics I) or MAT 2250G (Introductory Statistics) as appropriate prerequisites for these two OSC classes. The math department is aware of these proposed changes.

RATIONALE:

The School of Technology has proposed a CIT program revision that includes several MIS courses as core or elective classes for their CIT majors. Thus, the MIS/OM discipline is modifying the prerequisites for these classes to include appropriate CIT courses. In addition, including an introductory statistic course from the math department, as a prerequisite for OSC 4810 and OSC 4820, will allow more students who have an interest in data analytics or supply chain to take these classes.

EFFECTIVE DATE: (i.e.: Fall 20XX, Spring 20XX): Fall 2019

CURRENT CATALOG COPY:

MIS 4850 - Systems Security.

(3-0-3) On Demand. Study of theories, principles and techniques of information systems security. The course covers basic security concepts, communications security, infrastructure security, cryptography, as well as operational and organizational security.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 3500 or ACC 3900 or TEC 5313 for students enrolled in the MS in Cybersecurity degree program, or permission of the Associate Chair, School of Business.

Credits: 3

MIS 4860 - Ethical Hacking and Network Defense.

(3-0-3) On Demand. Study of the techniques and the methods of ethical hacking, security testing, and network defense. Students gain experience with the tools and techniques used by security professionals in order to locate and fix vulnerabilities in companies' network defenses.

Prerequisites & Notes:

BUS 3500 with a grade of "C" or better or TEC 5313 for students enrolled in the MS in Cybersecurity degree program, or permission of the Associate Chair.

Credits: 3

OSC 4810 - Supply Chain and Logistics Management.

(3-0-3) On Demand. The concepts in managing the complete flow of materials, information and financial resources in a supply chain from suppliers to customers are covered. This course covers manufacturing, distribution, service, and retail industries. This includes the fundamental relationships in the design, planning, execution, monitoring, and control that occur. A limit of 3 hours may be applied to a major or minor.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 2810 with C or better, or permission of the Associate Chair, School of Business.

Credits: 3

OSC 4820 - Business Analytics and Data Mining.

(3-0-3) On Demand. Management of statistical methods and tools for transforming massive amounts of data into new and useful information, uncovering factors that affect purchasing patterns, and identifying potential profitable investments and opportunities. Among the topics are: simple linear regression, multiple regression and correlation, partial regression techniques, model selections, validation, and diagnostics, logistics regression, data mining, decision tree, neural network models, visualization, and methods for model selection. Includes application of statistical software solution techniques. A limit of 3 hours may be applied to a major or minor.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 2810 with C or better, or permission of the Associate Chair, School of Business.

Credits: 3

PROPOSED CATALOG COPY:

MIS 4850 - Systems Security.

(3-0-3) On Demand. Study of theories, principles and techniques of information systems security. The course covers basic security concepts, communications security, infrastructure security, cryptography, as well as operational and organizational security.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 3500 with a C or better, or ACC 3900 with a C or better, or CIT 2523 with a C or better, or TEC 5313 for students enrolled in the MS in Cybersecurity degree program, or permission of the Associate Chair, School of Business.

Credits: 3

MIS 4860 - Ethical Hacking and Network Defense.

(3-0-3) On Demand. Study of the techniques and the methods of ethical hacking, security testing, and network defense. Students gain experience with the tools and techniques used by security professionals in order to locate and fix vulnerabilities in companies' network defenses.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 3500 with a grade of C or better, or CIT 2523 with a grade of C or better, or TEC 5313 for students enrolled in the MS in Cybersecurity degree program, or permission of the Associate Chair.

Credits: 3

OSC 4810 - Supply Chain and Logistics Management.

(3-0-3) On Demand. The concepts in managing the complete flow of materials, information and financial resources in a supply chain from suppliers to customers are covered. This course covers manufacturing, distribution, service, and retail industries. This includes the fundamental relationships in the design, planning, execution, monitoring, and control that occur. A limit of 3 hours may be applied to a major or minor.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 2810 with C or better, or MAT 2250G with C or better, or permission of the Associate Chair, School of Business.

Credits: 3

OSC 4820 - Business Analytics and Data Mining.

(3-0-3) On Demand. Management of statistical methods and tools for transforming massive amounts of data into new and useful information, uncovering factors that affect purchasing

patterns, and identifying potential profitable investments and opportunities. Among the topics are: simple linear regression, multiple regression and correlation, partial regression techniques, model selections, validation, and diagnostics, logistics regression, data mining, decision tree, neural network models, visualization, and methods for model selection. Includes application of statistical software solution techniques. A limit of 3 hours may be applied to a major or minor.

Prerequisites & Notes:

Junior, Senior or Graduate standing, BUS 2810 with C or better, or MAT 2250G with C or better, or permission of the Associate Chair, School of Business.

Credits: 3