

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	Department Electrical Eng. and Computer Science College Engineering and Computer Science		
Program Name MS Information Technology and Management	<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date (TERM & YEAR) Spring 2024	
<p>Please explain the requested change(s) and offer rationale below or on an attachment.</p> <p>This proposal adds a new concentration in Cybersecurity to the MS in Information Technology and Management program.</p>			
<p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
Faculty Contact/Email/Phone Dr. Hanqi Zhuang, zhuang @fau.edu, 561-297-3413		Consult and list departments that may be affected by the change(s) and attach documentation ITOM	
Approved by Department Chair _____ College Curriculum Chair <u>Francisco Presuel-Moreno</u> College Dean <u>Mihaela Carde</u> UGPC Chair <u>Paul R. Refor</u> UGC Chair <u>Paul R. Refor</u> Graduate College Dean <u>Robert W. Stackman Jr.</u> UFS President _____ Provost _____		Date _____ 4/11/2023 _____ 4/11/2023 _____ 4/11/2023 _____ 08/17/2023 _____ 08/17/2023 _____ 08/18/2023 _____ _____	

Email this form and attachments to UGPC@fau.edu 10 days before the UGPC meeting.

Information Technology and Management

Information Technology and Management

Master of Science (M.S.)

Advanced Information Technology Concentration

Information Technology Management Concentration

Computer Science Data Analytics Concentration

Business Analytics Concentration

Cybersecurity

The Master of Science with Major in Information Technology and Management (MSITM) is jointly offered by the Department of Electrical Engineering and Computer Science (EECS) in the College of Engineering and Computer Science and the Department of Information Technology and Operations Management (ITOM) in the College of Business. Designed for highly motivated individuals with computing and/or managerial backgrounds, the program aims to prepare students for a management career in the area of information technology in organizations. To allow for maximum flexibility in career aspirations, students can select from four concentrations: Advanced Information Technology, emphasizing the technical aspect of organizational IT systems; Information Technology Management, focusing on the management issues of IT in organizations; Computer Science Data Analytics; ~~and~~ Business Analytics, and Cybersecurity. The program is offered in person with the Business Analytics and Information Technology Management concentrations offered in person and fully online.

Admission Requirements

To be admitted to the MSITM program applicants must have:

1. An undergraduate degree in Computer Science, Information Engineering Technology or an IT-related field of study. Applicants with another undergraduate degree and documented work experience of two or more years in an IT function will be evaluated as well;
2. An undergraduate GPA of 3.0 or higher;
3. GRE or GMAT scores more than five years old are normally not acceptable. The GRE and the GMAT requirement is waived for any student who has a baccalaureate degree from either FAU's Department of Electrical Engineering and Computer Science (EECS) or FAU's Department of Information Technology and Operations Management (ITOM) with a GPA of at least 3.25 (out of a possible 4.0) in the last 60 credits attempted prior to graduation;
4. International students from non-English-speaking countries must be proficient in written and spoken English as evidenced by a score of at least 500 (paper-based test) or 213 (computer-based test) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL) or a score of at least 6.0 on the International English Language Testing System (IELTS); and
5. Meet other requirements of the FAU Graduate College.

Degree Requirements

Students in all concentrations are required to complete 30 graduate-level credits, or 10, 3-credit courses (5000 level or higher), with a 3.0 GPA or better to graduate.

~~Students in the Advanced Information Technology and Computer Science Data Analytics concentrations are required to complete 30 graduate-level credits, or 10, 3-credit courses (5000 level or higher), with a 3.0 GPA or better to graduate. Students in the Information Technology Management and Business Analytics concentrations are required to complete 30 graduate-level credits, or 10, 3-credit courses (5000 level or higher), with a 3.0 GPA or better to graduate.~~

Students in the Advanced Information Technology, ~~and~~ Computer Science Data Analytics, and Cybersecurity concentrations will be awarded the degree by the College of Engineering and Computer Science, while those in the Information Technology Management and Business Analytics concentrations will have their degrees awarded by the College of Business. For more information about the Master of Science in Information Technology and Management degree program, call the Department of Electrical Engineering and Computer Science at 561-297-3482, or email ceecs@fau.edu.

Cybersecurity Concentration (30 credits)

Students are required to take the following three courses:	
Software Engineering	CEN 5035
Theory and Implementation of the Database Systems	COP 6731
Management of Information Systems and Technology	ISM 6026
Students must take three cybersecurity courses from the list below. Course substitution is allowed with prior approval of the advisor.	
Cryptographic Engineering	CDA 5326
Practical Aspects of Modern Cryptography	CIS 5371
Computer Data Security	CIS 6370
Distributed Systems Security	CIS 6375
Secret Sharing Protocols	COT 6427
Cyber Security: Measurement and Data Analysis	CTS 6319
Cryptocurrencies and Blockchain Technologies	CIS 6730
Students must take two EECS electives from graduate courses with prefixes CAP, CDA, CEN, CIS, COP, COT, CTS and CNT offered by the EECS department.	
The last two electives must be chosen from the following ITOM courses:	
Management of Information Assurance and Security	ISM 6328
Digital Forensics Management	ISM 6327
Business Innovation with Artificial Intelligence	ISM 6427C
Blockchain and Crypto Assets: Digital Business Transformation	ISM 6455
Special Topics	ISM 6930

From: Tamara Dinev <tdinev@fau.edu>
Sent: Tuesday, April 4, 2023 10:34 AM
To: Hanqi Zhuang <zhuang@fau.edu>; Mihaela Cardei <mcardei@fau.edu>
Cc: Jonathan Sweet <jsweet4@fau.edu>; Chul Woo Yoo <yooc@fau.edu>
Subject: RE: EECS plans to propose MSITM-Cybersecurity concentration

Hi Hanqi, Mihaela:

Attached is the syllabus for a new course ITOM proposes, Digital Forensics Management. It can be added as the second ITOM elective to the concentration.
The first ITOM elective is ISM 6328 Management of Information Assurance and Security.

I endorse the concentration. Please respond to me if you endorse our new course, so we can move together for approvals.
Thank you!

Best Regards:
Tamara

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Tamara Dinev, Ph.D., Department Chair and Professor
Dean's Distinguished Research Fellow
Department of Information Technology and Operations Management, FL 219
College of Business, Florida Atlantic University
Boca Raton, Florida 33431
Google Scholar: <https://scholar.google.com/citations?user=YH8QZ-YAAAAJ&hl=en>

From: Hanqi Zhuang <zhuang@fau.edu>
Sent: Thursday, March 30, 2023 3:14 PM
To: Tamara Dinev <tdinev@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: EECS plans to propose MSITM-Cybersecurity concentration

Dear Tamara,

How are you doing!
EECS plans to develop a new concentration for the MSITM program: Cybersecurity. The proposal draft is attached. Look forward to receiving your feedback.

Thanks,
Hanqi

Hanqi (Hanchi) Zhuang, Ph.D.
Chair and Professor
Department of Electrical Engineering and Computer Science
Florida Atlantic University
777 Glades Rd, EE403A
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561-297-3413
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From: Stephen Locke <lockes@fau.edu>
Sent: Monday, April 17, 2023 2:48 PM
To: Hanqi Zhuang <zhuang@fau.edu>; Edoardo Persichetti <epersichetti@fau.edu>; Shi Bai <sbai@fau.edu>; Veronika Kuchta <vkuchta@fau.edu>; Francesco Sica <sicaf@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: Please approve these two program revisions

Thank you. I think that should make our group happy.

Stephen

From: Hanqi Zhuang <zhuang@fau.edu>
Sent: Monday, April 17, 2023 2:35 PM
To: Stephen Locke <lockes@fau.edu>; Edoardo Persichetti <epersichetti@fau.edu>; Shi Bai <sbai@fau.edu>; Veronika Kuchta <vkuchta@fau.edu>; Francesco Sica <sicaf@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: Please approve these two program revisions

Dear Steve,

Thank you very much for the quick response.

We will place MAD 5474 the PhD program as an elective since the course may be too high level in math for MS ITM.

Best,
Hanqi

From: Stephen Locke <lockes@fau.edu>
Sent: Monday, April 17, 2023 2:26 PM
To: Hanqi Zhuang <zhuang@fau.edu>; Edoardo Persichetti <epersichetti@fau.edu>; Shi Bai <sbai@fau.edu>; Veronika Kuchta <vkuchta@fau.edu>; Francesco Sica <sicaf@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: Please approve these two program revisions

Hanqi,

The only comment I heard from the group is that they might like to have MAD 5474 (or the undergraduate CIS 4362) as a possible elective.

This was just a suggestion, so I am going to say that the department approves of the two programs.

Stephen

From: Hanqi Zhuang <zhuang@fau.edu>
Sent: Monday, April 17, 2023 1:35 PM
To: Stephen Locke <lockes@fau.edu>; Edoardo Persichetti <epersichetti@fau.edu>; Shi Bai <sbai@fau.edu>; Veronika Kuchta <vkuchta@fau.edu>; Francesco Sica <sicaf@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: Please approve these two program revisions

Hi Seve,

Please provide any feedback on the proposed MS ITM and PhD tracks so we can move forward with the approval processes.

Best,
hanqi

From: Hanqi Zhuang <zhuang@fau.edu>
Sent: Tuesday, April 4, 2023 2:50 PM
To: Stephen Locke <lockes@fau.edu>; Edoardo Persichetti <epersichetti@fau.edu>; Shi Bai <sbai@fau.edu>; Veronika Kuchta <vkuchta@fau.edu>; Francesco Sica <sicaf@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: Please approve these two program revisions

Thanks

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From: Stephen Locke <lockes@fau.edu>
Sent: Tuesday, April 4, 2023 2:21:37 PM
To: Hanqi Zhuang <zhuang@fau.edu>; Edoardo Persichetti <epersichetti@fau.edu>; Shi Bai <sbai@fau.edu>; Veronika Kuchta <vkuchta@fau.edu>; Francesco Sica <sicaf@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: Please approve these two program revisions

Thanks. I am forwarding our crypto group for comments.

Stephen

From: Hanqi Zhuang <zhuang@fau.edu>
Sent: Tuesday, April 4, 2023 2:16 PM
To: Stephen Locke <lockes@fau.edu>
Cc: Mihaela Cardei <mcardei@fau.edu>
Subject: Please approve these two program revisions

Dear Steve,

Hope this finds you well.

The EECS department proposes two program changes: one is to add a concentration, Cybersecurity to the MSITM program (jointly with ITOM) and another is to add a concentration to the PhD in CS program. See attached.

Please provide us with your feedback.

Thanks

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