

CERTIFICATE IN SYSTEMS ANALYSIS

Certificate programs offer working professionals an opportunity to increase their knowledge and skills in the specific areas of information technology. A certificate representing proven academic performance is presented after the required coursework is completed with a GPA of 3.0/4.0. All 500-level courses may be later applied toward the Master of Information Technology and Management, Master of Cyber Forensics and Security, or Master of Science in Applied Cybersecurity and Digital Forensics for those who apply and are accepted to the degree program. Applicants should have a bachelor's degree from an accredited college or university; the degree need not be in an information technology or a computer-related field. Prerequisites may be required for some courses in certificates; these prerequisites will not be applied to the certificate.

This program is designed for students seeking knowledge that will prepare them for a career as a systems analyst.

The prerequisite path for this certificate is completion of coursework, training, or certification equivalent to ITM 311 (Beginning Java), ITMD 510 (Intermediate Java), and ITMD 321 (Introductory Database and SQL). Equivalent certification may be PCEP – Certified Entry-Level Python Programmer, or Oracle Certified Associate (OCA) Java Programmer; and Oracle MySQL Database Administration, or Oracle Database Certified Associate, or Microsoft Certified Solutions Associate (MCSA): SQL Server.

Curriculum

Code	Title	Credit Hours
Required Courses		(12)
ITMM 571	Project Management for Information Technology Management ¹	3
ITMM 572	Process Engineering for Information Technology Managers	3
ITMT 531	Object-Oriented System Analysis, Modeling, and Design	3
Select a minimum of one course from the following:		3
INTM 522	Modeling for Decision-Making	3
ITMD 511	Application Development Methodologies	3
ITMD 532	UML-Based Software Development	3
ITMD 534	Human and Computer Interaction	3
ITMD 536	Software Testing and Maintenance	3
TECH 581	Consulting for Technical Professionals	3
Total Credit Hours		12

¹ Students who have already completed coursework, training, or certification equivalent to ITMM 571 may substitute a fourth course from the above list.