

# CERTIFICATE IN WEB DESIGN AND APPLICATION DEVELOPMENT

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 careers in web design and application development.

The prerequisite path for this certificate is ITM 311 or 313 and ITMD 361, or completion of equivalent coursework, training, or certification. Equivalent coursework, training, or certification would include introductory programming and a working knowledge of web development including HTML5, CSS, and Javascript. Equivalent certification may be PCEP – Certified Entry-Level Python Programmer, or Oracle Certified Associate (OCA) Java Programmer; and Microsoft Programming in HTML5 with JavaScript and CSS3 or Udemy HTML, CSS, & JavaScript Certification Course for Beginners.

## Curriculum

Code	Title	Credit Hours
<b>Required Courses</b>		<b>(12)</b>
ITMD 562		3
ITMD 565		3
Select a minimum of two courses from the following:		6
ITMD 534	Human and Computer Interaction	3
ITMD 553	Enterprise Intelligent Device Applications	3
ITMD 554	Mass-Market Intelligent Device Applications	3
ITMD 555	Open-Source Intelligent Device Applications	3
ITMD 563		3
ITMD 564		3
ITMD 566	Service-Oriented Architectures	3
ITMD 567	Web Systems Integration	3
ITMD 569	Topics in Application Development	3
<b>Total Credit Hours</b>		<b>12</b>