

Courses in Information Technology and Management

Listed below are all courses in Information Technology and Management currently offered by the IIT School of Applied Technology. Please note that as of fall 2012, all courses above the 300 level have new subject codes, as noted below. All courses are listed in course number order regardless of subject code. Some courses have amplifying information on subject material or technologies taught in the course. All identified course offering cycles are subject to change without notice.

Subject Code Key

- ITM** – **Foundations:** Undergraduate courses and graduate prerequisite courses at the 300 level and below
- ITMD** – **Development:** Application development, web development, multimedia, and data management
- ITMO** – **Operations:** Networking, communications, operating systems, and system administration
- ITMM** – **Management:** Management of information technology, business, law, and ethics
- ITMS** – **Security:** Security and forensics
- ITMT** – **Theory and Technology:** Theory, systems, system design and general topics in information technology
- TECH** – **Applied Technology:** Courses offered in common by the School of Applied Technology and not by a specific degree program

Availability Key ♦ Prerequisite undergraduate course available to graduate students by permit; do not apply to graduate degrees

* Undergraduate course available to graduate students; may not exceed 12 hours of 400-level courses

■ Graduate course available to undergraduate students by permit only

Undergraduate Courses in Information Technology and Management

ITM 100	Introduction to Information Technology as a Profession <i>Spring at Main Campus</i>	ITMO 454	Operating System Virtualization <i>Spring at Rice Campus</i>
ITM 300	Communication in the Workplace <i>Varies at Main Campus; COM 421 is preferred alternate</i>	ITMD 455	Intelligent Device Applications (Alternates between iOS, Fall and Android, Spring) <i>Every term at Main Campus and online in Spring (Android)</i>
ITM 301	Introduction to Contemporary Operating Systems & Hardware I (CompTIA A+) ♦ <i>Fall at Rice Campus Spring at Main Campus but may also be offered in the Fall</i>	ITMO 456	Intelligent Device Projects <i>Varies based on student demand</i>
ITM 302	Introduction to Contemporary Operating Systems & Hardware II (UNIX/Linux & shell scripting) ♦ <i>Fall at Main Campus Spring at Rice Campus (not offered Spring 2013; expect requirement to be replaced by ITMD 456)</i>	ITMD 456	Introduction to Open Source Operating Systems (CompTIA Linux+) *
ITM 311	Introduction to Software Development (Java) ♦ <i>Fall at Rice Campus Spring at Main Campus</i>	ITMS 458	Operating System Security <i>Spring at Main Campus every other year</i>
ITM 312	Introduction to Systems Software Programming (C++) ♦ <i>Fall at Main Campus Spring at Rice Campus</i>	ITMD 460	Fundamentals of Multimedia *(Graduate students by instructor permit only)
ITMD 411	Intermediate Software Development (Java/C#) * <i>Fall at Main Campus and online Spring at Rice Campus and online</i>	ITMD 461	Internet Technologies & Web Design (HTML/CSS/Javascript) * <i>Fall at Rice Campus and online Spring at Main Campus and online</i>
ITMD 412	Advanced Structured and Systems Programming (C++) * <i>Varies based on student demand; at Rice Campus and online when offered</i>	ITMD 462	Web Site Application Development (PHP/CMS) <i>Fall at Main Campus and Online</i>
ITMD 413	Open Source Programming (Open source language or application framework; topic varies by offering) <i>Varies based on faculty availability; online when offered</i>	ITMD 463	Intermediate Web Application Development (C#/.Net) <i>Fall at Main Campus and online</i>
ITMD 415	Advanced Software Development (Enterprise Java) <i>Fall at Main Campus and online</i>	ITMD 464	Advanced Web Application Development (C#/.Net) <i>Spring at Main Campus and online</i>
ITMD 419	Topics in Software Development (Topic varies by offering) <i>Varies based on faculty availability; online when offered</i>	ITMD 465	Rich Internet Applications (HTML 5) <i>Varies based on faculty availability</i>
ITMD 421	Data Modeling and Applications (Databases/SQL) * <i>Every term at Main Campus and online</i>	ITMD 466	Service-Oriented Architectures (XML) <i>Spring at Main Campus and online</i>
ITMD 422	Advanced Database Management (SQL) * <i>Fall at Main Campus and online</i>	ITMD 469	Topics in Application Development (Topic varies by offering) <i>Varies based on faculty availability and student demand; online when offered</i>
ITMS 428	Database Security <i>Fall at Main Campus and online</i>	ITMM 470	Fundamentals of Management for Technology Professionals <i>Varies based on faculty availability and student demand; online when offered</i>
ITMD 434	Human/Computer Interaction <i>Spring at Main Campus and online</i>	ITMM 471	Project Management for Information Technology Management <i>Fall at Main Campus and online Spring at Rice Campus and online</i>
ITMO 440	Introduction to Data Networks and the Internet <i>Fall at Main Campus and online Spring at Rice Campus and online</i>	ITMS 478	Cyber Security Management <i>Fall at Rice Campus and online Spring at Main Campus and online</i>
ITMO 441	Network Administration and Operations <i>Spring at Main Campus and online</i>	ITMS 479	Topics in Cyber Security (Topic varies by offering) <i>Varies based on faculty availability but normally Fall and Spring at Main Campus and online</i>
ITMO 443	Vulnerability Analysis and Control ('Ethical Hacking') <i>Spring at Rice Campus and online</i>	ITMM 485	Legal and Ethical Issues in Information Technology <i>Varies based on faculty availability; online when offered</i>
ITMO 444	Cloud Computing Technologies <i>Fall at Main Campus and online</i>	ITMT 492	Embedded Systems and Reconfigurable Logic Design *
ITMS 448	Cyber Security Technologies <i>Fall at Rice Campus only</i>	ITMT 494	Special Projects in Information Technology (Independent study) <i>Varies based on faculty availability and student demand</i>
ITMO 451	Distributed Workstation System Administration (Windows Server) <i>Varies based on student demand</i>	ITMT 495	Topics in Information Technology (Varies by offering) <i>Varies based on faculty availability and student demand; generally online when offered</i>
ITMO 452	Client-Server System Administration (UNIX, normally Solaris) <i>Varies based on student demand</i>	ITMT 497	Special Problems in Information Technology (Independent study) <i>Every term by arrangement with a full-time faculty member</i>

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Graduate Courses in Information Technology and Management

ITMD 511	Application Development Methodologies <i>Varies based on faculty availability; online when offered</i>	■	ITMD 555	Intelligent Device Applications (Alternates between iOS and Android development) <i>Every term at Main Campus and online in Spring (Android)</i>
ITMD 513	Open Source Programming (Open source language or application framework; topic varies by offering) <i>Varies based on faculty availability; online when offered</i>	■	ITMS 555	Mobile Device Forensics <i>Varies based on student demand at the Rice Campus</i>
ITMD 515	Advanced Software Development (Enterprise Java) <i>Fall at Main Campus and online</i>	■	ITMO 556	Intelligent Device Projects <i>Varies based on student demand</i>
ITMT 514	Enterprise Application Architectures <i>Varies based on student demand</i>	■	ITMO 557	Storage Technologies <i>Varies based on faculty availability; online when offered</i>
ITMS 518	Coding Security <i>Varies based on faculty availability and student demand</i>	■	ITMS 558	Operating System Security <i>Spring at Main Campus every other year</i>
ITMD 519	Topics in Software Development (Topic varies by offering) <i>Varies based on faculty availability; online when offered</i>	■	ITMD 562	Web Site Application Development (PHP/CMS) <i>Fall at Main Campus and Online</i>
ITMD 521	Client/ Server Technologies and Applications <i>Varies based on faculty availability; online when offered</i>	■	ITMD 563	Intermediate Web Application Development (C#/.Net) <i>Fall at Main Campus and online</i>
ITMD 526	Data Warehousing <i>Alternate Spring terms at Main Campus and online; expect next offering in Spring 2014</i>	■	ITMD 564	Advanced Web Application Development (C#/.Net) <i>Spring at Main Campus and online</i>
ITMD 527	Data Analytics <i>Spring at Main Campus and online</i>	■	ITMD 565	Rich Internet Applications (HTML 5) <i>Varies based on faculty availability</i>
ITMS 528	Database Security <i>Fall at Main Campus and online</i>	■	ITMD 566	Service-Oriented Architectures (XML) <i>Spring at Main Campus and online</i>
ITMD 529	Advanced Data Analytics <i>Alternate Spring terms at Main Campus and online; expect next offering in Spring 2013</i>	■	ITMD 569	Topics in Application Development (Topic varies by offering) <i>Varies based on faculty availability and student demand; online when offered</i>
ITMT 531	Object-Oriented System Analysis, Modeling and Design <i>Alternate Fall terms at Rice Campus and online; next offering Fall 2012</i>	■	ITMM 570	Fundamentals of Management for Technology Professionals <i>Varies based on faculty availability and student demand; online when offered</i>
ITMD 532	UML-Based Software Development <i>Alternate Fall terms at Rice Campus and online; expect next offering in Fall 2013</i>	■	ITMM 571	Project Management for Information Technology Management <i>Fall at Main Campus and online Spring at Rice Campus and online</i>
ITMT 533	Operating System Design Implementation <i>Varies based on faculty availability; online when offered</i>	■	ITMM 572	Process Engineering for Information Technology Managers <i>Fall at Main Campus and online</i>
ITMD 534	Human/Computer Interaction <i>Spring at Main Campus and online</i>	■	ITMM 573	Building and Leading Effective Teams <i>Spring at Main Campus and online</i>
ITMT 535	Data Center Architecture <i>Fall at Main Campus and Online</i>	■	ITMM 574	Information Technology Management Frameworks <i>Varies based on faculty availability; online when offered</i>
ITMD 536	Software Testing and Maintenance <i>Varies based on faculty availability; online when offered</i>	■	ITMM 575	Networking and Telecommunications Management <i>Varies based on faculty availability; online when offered</i>
ITMT 537	Instructional Technologies <i>Varies based on faculty availability; online when offered</i>	■	ITMM 576	Data Center Management <i>Spring at Main Campus and online</i>
ITMS 538	Cyber Forensics <i>Spring at Rice Campus and online</i>	■	ITMS 577	Case Studies in the Management of Information Technology <i>Varies based on faculty availability; online when offered</i>
ITMS 539	Steganography <i>Varies based on faculty availability</i>	■	ITMS 578	Cyber Security Management <i>Fall at Rice Campus and online Spring at Main Campus and online</i>
ITMO 540	Introduction to Data Networks and the Internet <i>Fall at Main Campus and online Spring at Rice Campus and online</i>	■	ITMS 579	Topics in Cyber Security (Topic varies by offering) <i>Varies based on faculty availability but normally Fall and Spring at Main Campus and online</i>
ITMO 541	Network Administration and Operations <i>Spring at Main Campus and online</i>	■	TECH 580	Topics in Technology (Topic varies by offering) <i>Varies based on faculty availability and student demand; normally online when offered</i>
ITMO 542	Wireless Technologies and Applications <i>Fall at Rice Campus and online</i>	■	TECH 581	Consulting for Technical Professionals <i>Varies based on faculty availability; online when offered</i>
ITMO 543	Vulnerability Analysis and Control ('Ethical Hacking') <i>Spring at Rice Campus and online</i>	■	ITMM 581	IT Entrepreneurship <i>Every term at Main Campus</i>
ITMO 544	Cloud Computing Technologies <i>Fall at Main Campus and online</i>	■	ITMM 582	Business Innovation <i>Every term at Main Campus</i>
ITMO 545	Telecommunications Technology <i>Varies based on faculty availability and student demand; online when offered</i>	■	ITMM 584	Information Technology at C-Level <i>Varies based on student demand</i>
ITMO 546	Telecommunications Over Data Networks <i>Fall at Main Campus and online Spring at Rice Campus & online; labs at Main & Rice Campuses</i>	■	ITMM 585	Legal and Ethical Issues in Information Technology <i>Varies based on faculty availability; online when offered</i>
ITMO 547	Telecommunications Over Data Networks: Projects & Advanced Methods <i>Every term at Main and Rice Campus</i>	■	ITMM 586	Information Technology Auditing <i>Varies based on faculty availability; online when offered</i>
ITMS 548	Cyber Security Technologies <i>Fall at Rice Campus</i>	■	ITMS 588	Incident Response, Disaster Recovery and Business Continuity <i>Varies based on faculty availability; online when offered</i>
ITMS 549	Cyber Security Technologies: Projects & Advanced Methods <i>Spring at Rice Campus</i>	■	ITMT 593	Embedded Systems <i>Varies based on faculty availability and student demand</i>
ITMO 551	Distributed Workstation System Administration (Windows Server) <i>Varies based on student demand</i>	■	ITMT 594	Special Projects in Information Technology (Independent study) <i>Varies based on faculty availability and student demand</i>
ITMO 552	Client-Server System Administration (UNIX, normally Solaris) <i>Varies based on student demand</i>	■	ITMT 595	Topics in Information Technology (Varies by offering) <i>Varies based on faculty availability and student demand; generally online when offered</i>
ITMO 554	Operating System Virtualization <i>Spring at Rice Campus</i>	■	ITMT 596	Graduate Honors Studies in Information Technology (Independent study) <i>Any term by arrangement with a full-time faculty member</i>
			ITMT 597	Special Problems in Information Technology (Independent study) <i>Any term by arrangement with a full-time faculty member</i>