

COMPUTER INFO TECHNOLOGY (CIT)

CIT 300 Computer Information Technology Foundations 3 Hours

Introduces students to educational technology and the distance education process necessary for the CIT Program.

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023; fall 2023

CIT 302 Web Development 3 Hours

Introductory course in web design and development. Provides students with strategies and skills to plan and develop commercial web sites.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; fall 2023

CIT 310 Systems Architecture I 3 Hours

Introduction to applied technology and computer architecture. Emphasis will be on hardware specification and selection, troubleshooting, maintenance, and optimizing system performance.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023; fall 2023

CIT 312 Systems Architecture II 3 Hours

Introduction to software elements of the computer, including operating systems, programming tools, and system utilities. Course will emphasize these elements in an applied, organizational context.

Prerequisite(s): CIT 310 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023

CIT 330 Systems Development I 3 Hours

Emphasis on developing structured system applications and program logic. Assumes no prior experience with system development and does not focus on any particular language.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: summer 2021; fall 2021; summer 2022; fall 2022; fall 2023

CIT 332 Systems Development II 3 Hours

Practical study of system-development tools commonly used in business and organizations. This course will include advanced topics such as interfacing systems with databases and web applications.

Prerequisite(s): CIT 330 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; spring 2022; summer 2022; spring 2023

CIT 350 Database Administration I 3 Hours

Introduction to database applications and related fundamentals including database models, normalization, and principles of effective database design.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023; fall 2023

CIT 352 Database Administration II 3 Hours

A continuation of CIT 350 with emphasis on developing distributed database solutions, client-server models for business use and advanced SQL.

Prerequisite(s): CIT 350 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; fall 2023

CIT 370 Telecommunications I 3 Hours

Overview of modern networking systems, including networking fundamentals, local area networks, routing, addressing, wide area networks, remote access, and security. Emphasis on applied technology used in organizational settings.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023; fall 2023

CIT 372 Telecommunications II 3 Hours

Introduction to the TCP/IP protocol, its use in an organizational environment, and the different sub-protocols that underlie popular business applications.

Prerequisite(s): CIT 370 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023; fall 2023

CIT 412 Advanced Systems Architecture I 3 Hours

A continuation of CIT 312 with a focus on enterprise architecture and how to design computer system solutions using industry-standard operating systems and tools.

Prerequisite(s): CIT 312 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; fall 2023

CIT 414 Advanced Systems Architecture II 3 Hours

Examines both the managerial aspects of system design—build vs. buy, labor, and related strategic decisions—and administration of corporate networks, and related systems.

Prerequisite(s): CIT 412 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023

CIT 416 Systems Administration I 3 Hours

Strategies and techniques to prepare students for enterprise server design, implementation, and maintenance, including advanced networking hardware and software tools.

Prerequisite(s): CIT 312 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: fall 2021; fall 2022; fall 2023

CIT 418 Systems Administration II 3 Hours

A continuation of CIT 416 that provides more in-depth analysis of system architecture and administration, developing strategic advantage through appropriate investments in technology and contemporary issues in enterprise computing and management.

Prerequisite(s): CIT 416 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2022; spring 2023

CIT 432 Advanced Systems Development I 3 Hours

Focuses on advanced system-development approaches. Students will utilize modern development tools to build business systems and applications.

Prerequisite(s): CIT 332 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023

CIT 434 Advanced Systems Development II 3 Hours

Focuses on the managerial aspects of systems development. Analyzes the various stakeholders of enterprise software architectures, including software architects, designers, analysts, developers, members of IT strategy departments, and project managers.

Prerequisite(s): CIT 432 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: fall 2022

CIT 436 Web Systems Development I 3 Hours

Emerging trends in web-based applications and how they are developed. Emphasis on building business-oriented solutions using web technology and the Internet.

Prerequisite(s): CIT 302 with a minimum grade of C and CIT 332 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; spring 2022; spring 2023; summer 2023; fall 2023

CIT 438 Web Systems Development II 3 Hours

A continuation of CIT 436 providing additional coverage of web service and application topics. Also emphasizes integration with existing database systems and legacy applications.

Prerequisite(s): CIT 436 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: None

CIT 452 Advanced Database Administration I 3 Hours

Focuses on administering the enterprise database system. Emphasizes implementation and administration issues associated with large-scale database systems.

Prerequisite(s): CIT 352 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: fall 2021; fall 2022; fall 2023

CIT 454 Advanced Database Administration II 3 Hours

A continuation of CIT 452. Related managerial issues are emphasized in this course. Topics include data warehousing, data mining, and distributed database systems administration.

Prerequisite(s): CIT 452 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023

CIT 456 Systems Analysis & Design I 3 Hours

Modern analysis and design techniques with an emphasis on developing organizational systems.

Prerequisite(s): CIT 352 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023

CIT 458 Systems Analysis & Design II 3 Hours

Analysis and design of object-oriented systems.

Prerequisite(s): CIT 456 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023

CIT 472 Advanced Telecommunications I 3 Hours

Strategies for planning, designing, and implementing wireless networks including Wi-Fi adhoc networks, hybrid wireless, etc. as part of an overall organizational network strategy.

Prerequisite(s): CIT 372 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; summer 2023

CIT 474 Advanced Telecommunications II 3 Hours

Emerging networking technologies that create value and strategic advantage for business users. Emphasis on integrating networking technologies with existing systems and infrastructure.

Prerequisite(s): CIT 472 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: None

CIT 476 Network Administration I 3 Hours

Network administration and management with an emphasis on technologies and tools for supporting large-scale business networks.

Prerequisite(s): CIT 372 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: fall 2021; fall 2022; fall 2023

CIT 478 Network Administration II 3 Hours

The latest Microsoft technologies and tools for supporting network administration in organizational environments.

Prerequisite(s): CIT 476 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2022; spring 2023

CIT 482 Systems Security I 3 Hours

An examination of computer and corporate security in business settings, emphasizing security implementation within organizations using commercial tools and technologies.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: fall 2021; fall 2022; fall 2023

CIT 484 Systems Security II 3 Hours

A continuation of CIT 482 that provides additional study and experience with managerial/operational issues affecting the security of enterprise computers and networks; examines available tools and opportunities in the field.

Prerequisite(s): CIT 482 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2022; spring 2023

CIT 486 Knowledge Management 3 Hours

Examines computer-based knowledge-how organizations can capture, store, share, and effectively manage their intellectual resources.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; fall 2022; spring 2023; fall 2023

CIT 490 Senior Research 3 Hours

Students work on a capstone research project utilizing skills and knowledge from prior courses in their degree program. Projects performed, when possible, for a specific client or local industry. Lecture and Laboratory. Note: Consent of instructor required.

Course Fee: \$50

Recent Term(s) Offered: fall 2021; spring 2022; fall 2022; spring 2023; fall 2023

CIT 492 Technology Management I 3 Hours

Examines the management of technological projects including planning, implementation, control, quality, time, and budget.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022; spring 2023; fall 2023

CIT 494 Technology Management II 3 Hours

A practical examination of information technology with emphasis on the tactical and operational role of IT in an organization.

Prerequisite(s): CIT 492 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: spring 2021; summer 2021; fall 2021; spring 2022; summer 2022

CIT 496 Technology Support Administration 3 Hours

Explores the challenge of supporting technology resources within an organizational setting and presents current strategies and tools employed by managers to support users and technologies across the firm.

Prerequisite(s): CIT 300 with a minimum grade of C

Restriction(s): Enrollment is limited to students in Computer Information Tech (555)

Recent Term(s) Offered: fall 2021; spring 2022; fall 2022; spring 2023