TCMG 272 Technology and End-User Support
Credits 3. 3 Lecture Hours.
Upgrading, setup, configuration, troubleshooting of computer systems; development of skills to work with end-users; technology needs assessment; escalation and defusing strategies; service learning and community engagement.
Prerequisite: Sophomore classification.

TCMG 274 Foundations of Networking in Education
Credits 3. 3 Lecture Hours. 1 Lab Hour.
Development of knowledge towards application of telecommunications facilities in networking; technical alternatives for delivery of subject matter for educators and trainers.
Prerequisites: TCMG 272 or concurrent enrollment, or approval of instructor.

TCMG 285 Directed Studies
Credits 0 to 12. 0 to 12 Lecture Hours.
Directed readings or research problems in industrial technology.

TCMG 289 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of industrial technology. May be repeated for credit.

TCMG 291 Research
Credits 0 to 4. 0 to 4 Lecture Hours.
Research conducted under the direction of faculty member in technology management. May be repeated 3 times for credit.
Prerequisites: Freshman or sophomore classification and approval of instructor.

TCMG 303 Unix System Administration Practices
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Development and system administration of the Unix operating system; technical alternatives for proactive and reactive maintenance of system health.
Prerequisites: TCMG 272 and TCMG 274 with a grade of C or better; junior or senior classification or approval of instructor.

Credits 4. 3 Lecture Hours. 3 Lab Hours.
Development and system administration of graphical user interface-based operating systems; identification of security issues, required system maintenance procedures, user account provisioning to foster identity and access management strategies, theories of identity and access management.
Prerequisites: TCMG 272 and TCMG 274 with a grade of C or better; junior or senior classification or approval of instructor.

TCMG 308 Cybersecurity and Digital Ethics
Credits 3. 3 Lecture Hours.
Introduction to cybersecurity; analysis of threats and risks from the environment; development of appropriate strategies to mitigate impact; ethics of extraordinary administrative access; ethics of digital forensics and implications to society.
Prerequisites: TCMG 272 and TCMG 274 with a grade of C or better; junior or senior classification or approval of instructor.

TCMG 316 Database Systems Administration and Application
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Database administration and application use techniques; database structures, modeling, configuration, development, security, topologies and access; focus on system administration of Unix-based database systems.
Prerequisite: TCMG 303 with a grade of C or better.

TCMG 402 Instructional Technology and Design
Credits 3. 3 Lecture Hours.
Design principles; development of instruction; contemporary issues and trends; foundations in learning research; requirements for instruction, task and needs analysis; learning situations and instructional models; hardware and software innovations; assessing instructional outcomes; factors affecting utilization.
Prerequisites: EHRD 371 with a grade of C or better; junior or senior classification or approval of instructor.

TCMG 412 Contemporary Issues in Technology Management
Credits 3. 3 Lecture Hours.
Specific innovation or practices nascent to the professional information technology industry; discovery of practical applications and analytics of new innovation.
Prerequisites: TCMG 272 and TCMG 274 with a grade of C or better; junior or senior classification.

TCMG 476 Technical Network Capstone
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Development of knowledge and skills towards the application of technical network management in public education and corporate training settings; focus on practices, techniques and tools for managers of technical networks.
Prerequisites: TCMG 303 or TCMG 304 with a grade of C or better; junior or senior classification.

TCMG 484 Professional Internship
Credits 6. 6 Other Hours.
Directed internship in an organization to provide students with a learning experience supervised by professionals in organizational settings appropriate to the student’s professional objectives; must be in good standing with the University. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisites: EHRD 481 and EHRD 490 with a grade of C or better; approval of instructor.

TCMG 485 Directed Studies
Credits 0 to 12. 0 to 12 Other Hours.
Directed readings or research problems in industrial technology.
Prerequisites: Junior or senior classification in industrial technology.

TCMG 489 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of industrial technology. May be repeated for credit.
Prerequisite: Approval of instructor.

TCMG 491 Research
Credits 0 to 4. 0 to 4 Other Hours.
Research conducted under the direction of faculty member in technology management.
Prerequisites: Junior or senior classification; approval of instructor.