



Course Number and Title: ITN 265 Systems Analysis and Design

Campus Location:

Georgetown, Dover, Stanton, Wilmington

Effective Date:

2020-51

Prerequisite:

ITN 103, ITN 180

Co-Requisites:

None

Course Credits and Hours:

3.00 credits

2.00 lecture hours/week

2.00 lab hours/week

Course Description:

This course introduces established and evolving methodologies for the analysis, design, and development of solutions for information systems. Emphasis is given to system characteristics, managing projects, prototyping, and systems development life cycle phases.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

Access to high-speed Internet.

Schedule Type:

Classroom Course

Video Conferencing

Web Conferencing

Hybrid Course

Online Course

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Design a plan to implement system components. (CCC 2, 3, 4, 5, 6; PGC 1, 3, 4, 5)
2. Apply industry-specific project management skills to implement the system design. (CCC;1, 2, 3, 4, 5, 6; PGC 1, 3, 4)
3. Evaluate and implement a working system using a project plan. (CCC 1, 2, 3, 5, 6; PGC 1, 3, 4, 5)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Design a plan to implement system components.
 1. Explain the stages of system development life cycle (SDLC).
 2. Conduct a needs assessment to design a system.
 3. Formulate a plan to implement the system based on the needs assessment.
 4. Write a design proposal for the system.
 5. Develop the scope of the project.
2. Apply industry-specific project management skills to implement the system design.
 1. Describe industry-specific project management skills.
 2. Prepare deliverables specifications that are within the scope of the project.
 3. Document the progress of the stages of a project.
3. Evaluate and apply a working system using a project plan.
 1. Analyze the system design for potential problems.
 2. Generate a plan to address potential problems.
 3. Create a working system using design proposal.
 4. Prepare documentation for developing and maintaining the system.
 5. Assess the working system.
 6. Defend the design of the system.

Evaluation Criteria/Policies:

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Solve technology-related problems using critical thinking and troubleshooting skills.
2. Articulate the role of the technology professional in organizations to support the ethical use of information technology.
3. Apply fundamental security concepts and strategies for maintaining and securing information technology.
4. Read and interpret technical information and effectively communicate to a wide range of audiences using oral, print, and multimedia strategies.
5. Demonstrate the importance of lifelong learning that empowers personal and professional growth.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.