

Program or Discipline: <u>Computer Network Operations</u> Division: <u>CIT/Business</u>

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This guide is intended as a tool to help you plan assessments of student learning for the purpose of planning improvements—to identify where students may hit bumps in the road, or where course scope or sequence may not be aligned with program learning outcomes or the core abilities. You may want to start with concerns about some part of your curriculum. The assessment process may also help you identify where students are achieving outcomes at higher rates than you expected.

Process	Program or discipline response
 A. List expected learning outcomes. (Describe knowledge, skills, abilities, or attitudes upon completion of program or significant discipline work) 	Graduates of the program will: (or Students completing discipline work will:)1. install and configure workstations, servers and networked printers.
	2. install and configure internetworking devices such as switches and routers.
	3. install and configure a variety of network operating systems and provide for interoperability between them.
	4. administer an organization's computer network infrastructure.
	5. understand network security issues and use appropriate tools to insure network integrity.
	6. understand the critical features of wireless networking.
	7. understand fundamental networking theory, terminology, and industry recognized standards.
	8. interpret the concepts of a computer network related problem-solving task.
	9. use appropriate library and information resources to research network
	management issues and tools and support lifelong technical learning.

Part 1: Student Learning Outcomes – Determine Expectations (CONTENT to be assessed)

Process	Program or discipline response
B. Identify where expected outcomes are addressed in the curriculum. In which courses will students demonstrate each program/discipline outcome?	 CIS 227N, CIS 140U, CS 279W, CS 240U, ET 287 CS 289 CIS 227N, CIS 140U, CS 279W, CS 240U CS 179, CS 289, CS 279W, CS 240U CS 284, CS 279W, CS 240U CS 179 CS 179, CS 289 CIS 227N, CIS 140U, CS 279W, CS 240U, CS 179, CIS 225 CIS 227N, CIS 140U, CS 279W, CS 240U, CS 179, CIS 225, WR 227

Part 2: Assessment Methods – Determine Timing, Cohort(s), Assign Responsibility (PEOPLE assignments)

Process	Program or discipline response
C. Determine at least two methods to assess	For all outcomes above these two methods are used:
each outcome at the end of the program	• Midterm exams and/or quizzes and/or final exam
with at least one direct assessment of	Computer lab assignments
learning.	
D. Describe level of expected performance,	Expected performance of at least 70% on exams, quizzes, and computer lab
including conditions of assessment and	assignments.
criteria for success.	
E. If appropriate for key course sequences,	Not applicable
identify assessment methods for learning	
outcomes.	
F. If appropriate, identify and collect	Not applicable
baseline information on entering students.	
G. Establish a 3-5 year schedule for	Considering adding a capstone course in the last term of the degree in which all
assessment, including who will interpret	students will be assessed.
results.	
Which students will be assessed?	
When will the assessments take place?	
Which outcomes will you assess this	
year?	
(Suggestion: assess a maximum of 3	

Process	Program or discipline response
outcomes per year, except in specially	
accredited career technical programs)	
H. Determine how you will assess outcomes	When the capstone course is added, assessment will be accomplished by the
on an annual basis.	demonstration of skills in building and troubleshooting a network.
Who will conduct the assessments?	
Who will tabulate data?	
Who will analyze the results?	
When will the work be completed?	

3. Now you have a plan to implement—go forth and assess!

Part 4: Closing the Loop – Interpreting and Sharing Results to Enhance Institutional Effectiveness (COMMUNICATION)

Process	Program or discipline response
 I. Identify the next steps, including any planned changes to curriculum or pedagogy. What do you expect to learn from these assessment efforts? Determine how and with whom you will share interpretations. 	These courses will be updated to utilize current workplace software and associated skills: CIS 102, CIS 125D, CIS 140, CIS 140U, CS 240U, and CIS 227N. Tools to assess students will be updated as well.