

NTM 4760/4790 NETWORK MANAGEMENT TECHNOLOGY INTERNSHIP AND SENIOR PROJECT  
FALL 2015

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**COURSE DESCRIPTIONS**

NTM 4760 must be completed during the junior or senior year in a network/telecommunications environment with company placement and learning outcomes approved by the department. Simultaneous enrollment in NTM 4790 is required.

Prerequisites: NTM 4700 and NTM 4710. NTM 4790 is a capstone project applying the principles of network/telecommunications to the development of a network/telecommunications system within a company. Simultaneous enrollment in NTM 4760 is required. Prerequisites: NTM 4700 and NTM 4710.

**NTM 4760/4790 LEARNING OUTCOMES:** Learning outcomes are determined by the student, student's supervisor, and department faculty advisor to meet the specific needs of the student and the company in an internship setting. At the completion of this course, the student will be able to do the following:

1. Prepare a resume.
2. Meet with company supervisor and faculty advisor to discuss and plan five (5) work-related learning outcomes and complete an Internship Approval Form.
3. Develop a senior project plan for fulfilling a company need.
4. Meet with company supervisor and faculty advisor to discuss and plan four (4) work-related learning outcomes and complete a Senior Project Approval Form.
5. Send in biweekly progress reports during the semester.
6. Plan, organize, prepare, and write a formal report.
7. Lead on-site visit with faculty advisor and company supervisor.
8. Have a job supervisor complete an Employee Evaluation at the end of the network management technology work experience.
9. Complete a Student Evaluation Form at the end of the network management technology work experience.
10. Meet with the faculty advisor throughout the semester to discuss progress of the work learning outcomes.
11. Meet with faculty advisor for a final evaluation to determine whether or not the student has successfully completed work learning outcomes.
12. Keep a calendar of hours worked each day on each learning outcome.

**GRADING**

The final grade for this course is based on the following scale:

95% - 100 % = A	87% - 89% = B+	77% - 79% = C+	67% - 69% = D+
90% - 94 % = A-	83% - 86% = B	73% - 76% = C	63% - 66% = D
	80% - 82% = B-	70% - 72% = C-	60% - 62% = D
Assignments 1 Forms, Etc.		25%	
Assignments 2 Progress Reports		25%	
Assignments 3 Final Written Report		20%	
Completed On-the-job Learning Outcomes		40%	
Total		100%	

## GUIDELINES

For completion of the NTM 4760 Internship and Senior Project, credit is given for working in the area of network management technology. The total minimum number of hours for the internship and senior project together is 300. A minimum of **220** clock hours is required for completion of the internship.

Five (5) learning outcomes are to be set with your supervisor and then approved by your instructor. Some possible learning outcomes that could be completed include the following: (1) Create network diagrams/schematics using Visio, (2) Program switches and routers, (3) Reimage Building 3 computers in Labs Room 313, 318, 322, (4) Troubleshoot software, (5) Learn network management and network operating systems, and (6) Implement VOIP system.

For the NTM 4790 Senior Project, you need to be given total or partial responsibility for the senior project depending on the magnitude of the project. This is to be a major project. A minimum of **80** clock hours is required for completion of the Senior Project. The following is an example of the project and learning outcomes. Project: Move the telecommunications closet equipment to another location. Learning outcomes: (1) Set up equipment rack in new network management technology closet, (2) Install and configure new switch, (3) install and configure Cisco routers, (4) Install fiber lines into business, (5) Install and configure wireless access points in the company, and (6) Connect lines to routers. You will need to complete four (4) learning outcomes.

## TIME SCHEDULE

Please copy the Excel file that will be used for your calendar. Send me a copy of your calendar with each of your progress reports. The Excel file can be found on the assignments page for this course.

## NOTES

- All assignments are to be keyboarded in a professional manner and will be graded on content, organization, completeness, grammar, punctuation, and spelling.
- The last day to withdraw from this class is November 10, 2015.
- Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary.

- No late work is accepted without prior approval from the instructor. Late work is subject to a 20% late penalty and must be completed within one week of deadline. Notification to the instructor must be made within 24 hours of scheduled due date.
- Students are expected to complete their own work. If you are caught cheating in this course, you will be subject to academic discipline including the imposition of University sanctions. A description of cheating and possible sanctions is found in the WSU Student Code available on the WSU home page, at the office of the Vice President for Student Services, and at the WSUSA Office.