MURRAY STATE UNIVERSITY
DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

Course Number: TSM 232            Credit Hours: 3

I. TITLE: Operating Systems

II. CATALOG DESCRIPTION:
A primarily lab-based course studying operating systems and network administrative functions necessary to implement and maintain modern Local Area Networks (LAN). Topics include operating system installation and configuration, optimization and administrative tasks. Prerequisite: 132

III. PURPOSE:
The purpose of the course is to introduce the student to operating system architectures, subsystems, administration, performance, security and computer hardware.

IV. COURSE OBJECTIVES:
A. Provide the student with the types of operating systems and their characteristics.
B. Provide the student with the working knowledge of the installation and configuration of two different operating systems.
C. Provide the student with the working knowledge of the operating system specific administrative tasks.
D. Provide the student with the fundamentals and working knowledge of operating system performance and tuning.
E. Provide the student with operating system security fundamentals.

V. CONTENT OUTLINE:
A. Operating system installation and configuration
   1. Open source operating system (Linux)
   2. Microsoft Windows platform (Windows 2003 server)

B. Operating system specific administration
   1. Processes and applications
   2. Disk Utilization
   3. User administration
   4. Network configuration
   5. File Permissions and Sharing
   6. Active Directory & Group Policy
   7. Memory and disk configuration
   8. Remote administration

D. Operating system security
   1. Logging
   2. File permissions

VI. INSTRUCTIONAL ACTIVITIES:
Lecture, demonstration and laboratory.

VII. FIELD, CLINICAL, AND/OR LABORATORY EXPERIENCES: (If not applicable, write NONE.)
Laboratory exercises are used to enhance and reinforce the lecture material. VIII.

VIII. RESOURCES:
Lab equipment and its documentation as well as numerous internet resources.
IX. GRADING PROCEDURES:

Grading is based on exams and In-Lab exam grades. All grades will be posted on Blackboard. **No Extra Credit will be given.** Grades are based on the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Unit Exams (4)</td>
<td>60%</td>
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<tr>
<td>In Labs Exams (3)</td>
<td>40%</td>
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</tbody>
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100%

Final grades will be determined as follows:
- A – 90 to 100%
- B – 80 to 89%
- C – 70 to 79%
- D – 60 to 69%
- E – Below 60%

**In-Lab Exams**

In-Lab exams are task oriented. Students will be asked to accomplish a particular task within a specified time limit. Students will receive a grading rubric. In-Lab exams are worth 100 points with approximately 5-7 requested tasks.

**Written Exams**

Exams are a combination of multiple choice, fill-in-the-blank and matching. Each Unit Exam will be worth 100 points with approximately 30-50 questions.

**Exam and In-Lab Exam Make-Up Policy:** You will only be allowed to take a make-up in the event of an excused absence. This means that you must personally notify the instructor in advance that you are going to miss an exam or other scheduled activity because of illness, death of an immediate family member, job interview, university trip or some job-related commitment. Even if you have a valid excuse, but fail to notify me, I reserve the right not to grant a make-up exam or quiz. Any make up quizzes and/or exams will be given during finals week at the instructor’s convenience.

To receive a grade of AU for auditing this class, you must attend class & lab, take the exams, and have at least a 60% average. Otherwise, you will receive a failing grade.

X. ATTENDANCE POLICY:

This course will adhere to the “Attendance Policy” published in the **MSU Undergraduate Bulletin.**

**Lecture Attendance:** Lecture Attendance will taken. Students missing more than 5 lecture meetings (unexcused or excused) will receive a failing grade for the course. Students with three or more unexcused lecture absences will have their final grade lowered by one letter grade.

**Attendance for lab is mandatory.** No provisions will be made for making up absences from labs. Students must attend lab in order to get credit for that particular lab. An unexcused absence will result in a grade of zero for that particular lab. More than 15 minutes late will constitute ½ an absence. Also, leaving more than 15 minutes early will constitute ½ an absence. **No credit will be given for any lab not attended,** and only partial credit will be given for any lab for which a student is late or leaves early.
Excused Absences - It is your responsibility to provide documentation.
   a. Illness – a signed doctor’s excuse on the doctor’s letterhead or prescription form or an excuse from student health services will be required. A scheduled office appointment will not be accepted as an excused absence since it is under your control to set the appointment at another time.
   b. University sanctioned trips including field trips for other classes – a signed note from the sponsor of the trip will be required. Social fraternity or sorority trips are not excused.
   c. Family emergencies – will be handled on a case-by-case basis. I will require some form of documentation.

XI. ACADEMIC HONESTY POLICY:

This course will adhere to the “Academic Honesty Policy” published in the MSU Undergraduate Bulletin.

Cheating, plagiarism, submitting another person’s material as one’s own, or doing work for another person which will receive academic credit are all impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, or term papers, laboratory reports, drawings or the presentation of unacknowledged material as if it were the student’s own work. Disciplinary action may result in no credit for an assignment or exam and/or failure of the course.

XII. TEXT AND REFERENCES:


XIII. PREREQUISITES:

TSM 132

XIV. STATEMENT OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY:

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities. For more information, contact Sabrina Y. Dial, Director of Equal Opportunity, Murray State University, 103 Wells Hall, Murray, KY 42071-3318. Telephone: 270-809-3155 (voice), 270- 809-3361 (TDD).

XV. DISABLED STUDENTS

Students with disabilities that might inhibit them from full and equal participation in class and in demonstrating their full potential and abilities may contact me. Necessary accommodations may then be arranged to assist the student’s participation in the class.