IT 342 Operating Systems Fundamentals

SPRING 2018 SYLLABUS

Where & When: Three sections:
- 001: Tuesday, 19:20 to 22:00 Bull Run Hall 257 Instructor: James Holdener
- 002: Thursday, 16:30 to 19:10 Bull Run Hall 252 Instructor: James Holdener
- DL1: -- no fixed meeting time Instructor: Charles Snow

Section DL1 is a distance learning section, and has no fixed meeting day or time.

Instructors: For all questions relating to the course, please contact the instructor for your section:
James Holdener: iholdene@gmu.edu
Charles Snow: csnow@gmu.edu?subject=IT 342.DL1

Teaching Assistant: For questions relating to the course, assignments, and grading, please contact the TA for your section:
TBA for sections 001 and 002:
Subhankar Ghosh for section DL1: sghosh4@masonlive.gmu.edu

Pre-requisites: To be eligible to take IT 342, students must have already completed, earning at least a grade of C in:
- IT 101 Introduction to Information Technology & IT 212 Computer Hardware Fundamentals
  or
- IT 105 IT Architecture Fundamentals
- IT 106 Introduction to IT Problem Solving Using Computer Programming

Description: Practices and procedures for installing and configuring modern operating systems, including user accounts, file, print, and terminal servers, mobile computing, and disaster recovery. Through practical lab sessions, students receive real-world experiences with multiple operating systems.

Grading: Individual sections of IT 342 may have slight variations in the exact weightings on course requirements; your instructor will provide exact details for your section. All students are graded on how they:
- learn key terms and concepts,
- can express, in written and oral formats, the principles of how operating systems control computers and make hardware useful for applications, including OS features and limitations,
- participate in discussions, both in-class and/or in on-line discussions

Assessment of student knowledge may use quizzes and exams.

Course Policies: Homework and/or reading assignments can be expected after many classes.

Late work can be accepted, but only with the prior permission of the instructor, and may be subject to late penalty.

Missed exams must be arranged with the instructor before the exam date. All students must be present, on campus, to write exams in this course.

While students are encouraged to discuss solutions to problems, students must submit their own, original, work. All students are expected to abide by the George Mason University Honor System and Code (which contains a definition of plagiarism, amongst other things). Further related information is available from IEEE and ACM.

Note that we reserve the right to submit student work for automated testing against other
The lab exercises are done using two virtual machines, one Windows, one linux.

This semester the course will use the Blackboard LMS; individual sections may use additional resources. https://mymasonportal.gmu.edu

The purpose of IT 342 is to give students an understanding of the central concepts that make contemporary operating systems work. Knowing the how and why behind OS operating makes graduates better fit for system management and overall resource or project management. It is not the intent of the course to provide details on what particular commands are used in a given OS to perform a particular function; rather, given an understanding of the OS functions, a graduate can always look up the needed command. The course presents these underlying OS concepts, and illustrates many of them in class and in lab exercises using a popular proprietary OS (Microsoft Windows) and a popular open source OS (linux).

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<thead>
<tr>
<th>Campus Services:</th>
<th>A number of services are available to students, and you are encouraged to make use of them as you may need:</th>
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<tbody>
<tr>
<td>Writing Center:</td>
<td>A114 Robinson Hall; 703 993 1200; <a href="http://writingcenter.gmu.edu">http://writingcenter.gmu.edu</a></td>
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<tr>
<td>Office of Disability Services:</td>
<td>If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services (ODS) at 703 993 2474. All academic accommodations must be arranged through the ODS. <a href="http://ods.gmu.edu">http://ods.gmu.edu</a> and be arranged before any accommodation is needed.</td>
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<td>Counseling and Psychological Services (CAPS):</td>
<td>703 993 2380; <a href="http://caps.gmu.edu">http://caps.gmu.edu</a></td>
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<td>University Policy:</td>
<td>The University Catalog, <a href="http://catalog.gmu.edu">http://catalog.gmu.edu</a>, is the central resource for university policies affecting student, faculty, and staff conduct in university academic affairs. Other policies are available at <a href="http://universitypolicy.gmu.edu">http://universitypolicy.gmu.edu</a>. All members of the university community are responsible for knowing and following established policies.</td>
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<td>Course online Resources:</td>
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<td>Labs:</td>
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