

SYLLABUS

F24

Course: CIT 412 – Advanced System Architecture I

Instructor: Barry Phelps - MAE, MIS

Course Description

A continuation of CIT 312 with a focus on enterprise architecture and how to design computer system solutions using industry-standard operating systems and tools.

Topics and Objectives

- Introduction to Linux
- Linux installation and localization
- Boot and shutdown
- User interfaces and desktop
- Software installation
- Users and groups
- Disk and file system management
- Hardware installation
- Processes and system services
- System monitoring
- Networking
- Security

Upon completion of this course, the student shall be able to:	How the student will develop outcomes	How the student will be assessed the learning on these learning outcomes
Demonstrate Knowledge to Install and Configure Server	Readings, discussions, research	Discussions, quizzes, and research paper grade
Demonstrate Knowledge to Boot and Shutdown Linux Servers	Readings, discussions, Labs, quizzes	Discussions, quizzes and Labs
Apply Knowledge application for Managing Active Directory and Domain Controllers with Linux Servers	Readings, discussions, Labs, quizzes	Discussions, quizzes, and Labs
Describe System Architecture and Administration and importance of appropriate investments.	Readings, discussions, Labs, quizzes	Discussions, quizzes, and Labs
Demonstrate knowledge of File and Disk System Management	Readings, discussions, research	Discussions, quizzes, Labs and research paper grade
Demonstrate Knowledge of Hardware Installation	Readings, discussions, and Labs, quizzes	Discussions, quizzes, and Labs
Demonstrate knowledge of Networking, System Monitoring, and Security	Readings, discussions, and Labs, quizzes	Discussions, quizzes, and Labs

Welcome!

Welcome to CIT 412 – Advanced System Architecture I! My name is Barry Phelps and I am anticipating a rewarding, fun experience for all of us with the primary focus being that you have an opportunity to learn about information systems.

Class Location/Times

This class is delivered in an online format. Because it contains a significant number of online assignments, it will be necessary for students to have access to reliable Internet connections. The class is available at the following website:

<https://blackboard.wku.edu>.

Required Material(s)

Textbook: None

Other Required Materials: Lab Sim

- Test Out Linux PC Pro Software
- ISBN: 978-1-935080-38-1

You may purchase these materials direct from TestOut Corp for approx. \$89.00. Go to www.testout.com, enter 14-232TA in the "Enter Promotion Code" box on the home page and press enter. There are a couple key points required to validate the order :

- The school name must be Western Kentucky University
- The name must also be used (Mark Revels)

During the checkout process you will receive immediate online access, and an email will be provided with download instructions as soon as your order has been finalized.

Instructor Information

Name: Barry Phelps MAE, MIS.

Email: barry.phelps@wku.edu Phone: 270-831-9678

My office hours are as follows:

- Tuesday & Wednesday, 1 – 3pm Central Time

Note that if you try to contact me late on Friday, you will likely not get a response until late Sunday or early Monday.

Email is the best method of contact. I usually respond in less than 24 hours except on weekends. Please don't wait until the weekend.

Assignments & Point Values

Your grade for this course will be determined according to the following scheme:

Activities	Points Possible
Test Out Assignments & Quizzes	587.5
Presentations	100
Discussion Questions	62.5
Comprehensive Final Exam (see below)	250
Total Points Available	1000

Final Exam: The final exam needs to be taken at a proctored testing center. Please visit On Demand website (<http://www.wku.edu/ondemand/exams.php>) to make arrangements to take the test on WKU campus or elsewhere.

The grading scale that will be used is:

- A = 900 – 1000 points
- B = 800 – 899 points
- C = 700 – 799 points
- D = 600 - 699 points
- F = 0 – 599 points (for cheating)

Please see the Course Master Schedule in the Start Here section of Blackboard for more details.

Please be sure to review your grades right away; corrections will not be made more than seven days after the initial grade is posted.

Activities

There are four major activities in this course. A brief explanation of each activity is as follows:

- Test Out Assignments– You will read/watch/complete the section materials from Test Out.
- Quizzes – You will complete Test Out quizzes on the assigned Test Out material.
- Presentations – On an assigned class period (see Course Master Schedule), you will deliver a 10 minute presentation/lecture covering the most important information you learned in the given and the previous two and three units.
- Final Exam – The final exam will be comprehensive, based on the Test Out materials.

Students are allowed to do the Quizzes and Labs as many times as they want and will receive the highest grade. This does not apply to the Final Exam or Presentations. The instructor will generally grade all submitted activities and post grades once per week.

Instructor Feedback

In general, I will post grades no later than the Monday or Tuesday of each week. I tend to comment little if you are doing well (>80%) and comment more if you are not (< 80%). However, at any time if you have questions about any comments and/or grades, please contact me within three or four days at most while the issues are still fresh in both our minds. This will help to iron any issues out as soon as possible.

Also, if I mistakenly note you as missing any assignments and you did submit them, please immediately let me know the time and date you posted. I will be very, very happy to download the post and correct my records. I will not make changes to grades after one week of posting.

Non-Graded Assignments

Some activities that you will complete during the course are ungraded or carry no point value (like reading assignments). However, it is very important that you complete these activities. Non-completion of these activities may negatively impact your graded work.

Extra Credit

There is no extra credit or make-up work as the class assignments reflect what is required for successful completion of this course.

Academic Standards

I expect all students to support the same respect for individuals, commitment to issue and problem resolution, and open communication and feedback as in any learning environment.

Specifically, all students are expected to:

- Accept responsibility and accountability for all use actions and content posted to any online classroom, public meeting or personal inbox (email).
- Maintain the same ethical standards expected in a collaborative, academic environment.
- Demonstrate respect for all faculty, students, and staff regardless of age, race, gender, religion, national origin, veteran's status, disability, or sexual orientation.

In the online environment, the following will not be tolerated:

- Harmful, threatening, libelous, or abusive content
- Profanity of any kind
- Copyright infringement or violation of patent, trademark, proprietary information, or confidentiality agreements
- Misrepresentation of identity through alteration of inbox (email) names
- Posting unsolicited advertisements to public meetings or private inboxes (no spamming)
- Transferring computer viruses, intentionally or unintentionally, or other code that disrupts or interferes with other users' use of the online environment or personal computers, systems, or networks.

Honesty

I highly value academic honesty. A student must always submit work that represents his or her original words or ideas. If any words or ideas are used that do not represent the student's original words or ideas, then the student must cite all relevant sources. The student should also make it clear the extent to which such sources are used.

Words or ideas that require citation include, but are not limited to, all hardcopy or electronic publications, whether copyrighted or not, and all verbal or visual communication when the content of such communication clearly originates from an identifiable source.

All submissions to any public meeting or private mailbox fall within the scope of words and ideas that require citations if used by someone other than the original author. Academic dishonesty in an Online learning environment could involve the following:

- Having a tutor or friend complete a portion of your assignments.
- Having a reviewer make extensive revisions to an assignment.
- Copying work submitted by another student to a public class meeting.
- Using information from on-line information services without proper citation

Any of these practices could result in charges of academic dishonesty. Sanctions range from failing an assignment, the class, or expulsion.

I consider academic honesty a very serious issue. I have and will fail students that I discover are not adhering to the above guidelines.

Class Navigation

Go to <http://blackboard.wku.edu> and follow the login instructions (usually available by the first day of class). This site will be the primary means for quizzes, grades, announcements, exam and homework scores, reading materials, discussions, and other supplemental course information that you will need. Please be sure and check this site regularly.

Computer Access

This class requires each student to make use of several software packages, various other software tools and the Internet. All required resources are available either in the general Student Computer Labs across campus, on WKU Extended campuses, and typically, at public libraries. Lack of hardware, software and Internet connectivity at home to complete any assignment is not an acceptable reason for not completing work. You may work from any location you prefer (home, work, etc...), but you will need access to MS Office software.

Technology Issues

School servers are unavailable from time-to-time. Accordingly, I will accept e-mailed assignments to my personal mailbox for time-stamping purposes only. However, once Blackboard is available to you, in order to receive a grade, the assignment must be posted to the designated discussion board or drop box as detailed in this syllabus.

Also, from time to time the Blackboard system will lock-up during a quiz or exam. If this happens, please contact me as soon as possible. I can only reset the exam, which means you will have to take it over (this includes final exams). If you wait until the last minute to take an exam, you may not be able to reset due to time limitations.

For comments about technology issues (for example, Blackboard problems), please contact the Vice President of Information Technology (see <http://www.wku.edu/infotech/index.php?page=VP>).

Late Assignments

Due to the nature of this course and based upon my teaching experience, it is critical that you are timely in submitting the assignments. Since all assignments are made available before they are due, no late work will be accepted for any reason. Again, no late work will be accepted for any reason. Please do not wait until the last minute to do your assignments; no late work will be accepted for any reason.

Cancellations

If you are dropped for any reason (lack of payment, etc.), your access to Blackboard may be terminated. In this event you will **NOT** be permitted to make up on-line course assignments/activities during the time you lost access to Blackboard.

Grievance Process

If you are unhappy with any aspect of the course, please contact me via email with a detailed explanation of the problem. I will do my best to help resolve the issue. If you are still unsatisfied, please contact the program coordinator, Dr. Mark Revels, at mark.revels@wku.edu.

Schedule Exceptions

I will not approve any schedule exceptions.

Title IX Misconduct/Assault Statement

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and

Discrimination and Harassment Policy (#0.2040) at https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf.
Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment

and/or sexual misconduct to a faculty member, WKU faculty are “Responsible Employees” of the University and **MUST** report what you share to WKU’s Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU’s Counseling and Testing Center at 270-745-3159.

ADA Accommodation Statement

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, room 1074 of the Student Success Center. The phone number is 270.745.5004. or email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a letter of accommodation from The Student Accessibility Resource Center.

COVID Statement

All students are strongly encouraged to [get the COVID-19 vaccine](#). Out of respect for the health and safety of the WKU community and in adherence with CDC guidelines and practices of all public universities and colleges in [Kentucky](#), the University requires that a cloth face covering (reusable or disposable) that covers both the nose and mouth must be worn at all times when in public areas within all buildings. Students must properly wear face coverings while in class regardless of the room size or the nature of the classroom activities. Students who fail to wear a face covering as required will be in violation of the WKU Student Code of Conduct and will be asked to comply or will face disciplinary action, including possible dismissal from the University. Accommodations can be requested in special cases through the Student Accessibility and Resource Center ([SARC](#)): [270-745-5004](tel:270-745-5004) (voice), [270-745-3030](tel:270-745-3030) (TTY), or [270-288-0597](tel:270-288-0597) (video).

All students must immediately report a positive Covid-19 test result or close contact with a person who has tested positive to the Covid-19 Assistance Line at 270-745-2019. The assistance line is available to answer questions regarding any Covid-19 related issue. This guidance is subject to change based on requirements set forth by public health agencies or the office of the governor. Please refer to the Healthy on the Hill website for the most current information. www.wku.edu/healthyonthehill

The U.S. Department of Education requires that distance education courses must include regular and substantive interaction between students and faculty. For more information about Regular and Substantive Interaction at WKU, please visit the [Regular and Substantive Interaction in Online and Distance Learning webpage](#).

In this course, regular and substantive interaction will take place in the following ways:

- Faculty participation in weekly discussion boards,
- Weekly announcements, and
- Timely and detailed feedback on assignments provided within one week of submission.

Instructor reserves the right to change syllabus as needed during the course