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IT Fundamentals

Teacher: Mrs. Erica Grell

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Room: 111-112, Independent study space

Office Hours: 7:15am – 7:45am & 2:10pm – 3:00pm

Course Overview

This course will explore cloud computing services, application, and uses. Students will dive into cloud computing best practices and learn how cloud computing helps users develop global infrastructures to support businesses using innovative technology. It utilizes a learning progression model to help you learn and build skills related to the course objectives, daily technology interactions, and career skills needed across a variety of fields. You'll then apply what you learned and demonstrate the skills you've gained through a series of lab activities and quizzes.

Outline - Topics covered in class

Class Expectations

Students will learn the following concepts:

- Cloud Infrastructures and Global
- Virtual servers
- content delivery via Cloud
- Security and monitoring Cloud
- Databases, load balancers, and elastic / auto scaling
- Billing, pricing, and budgets
- Fundamentals certification.

- All MTCHS Handbook policies will be followed
- Do your own work—cheating and plagiarism are not tolerated
- Students are responsible for checking due dates in PowerSchool
- In order to prepare for the internship, students will be instructed and assessed on the MTCHS Framework skills. This is done throughout the course and woven into various activities.

Grading

Assignments are presented through Moodle links to the TestOut LabSim interface. Assignments are in the form of Videos, Demos, Labs, Practice Questions, and Tests. Module Tests are derived from a compilation of labs and quizzes from the unit assignments. Chapter grades will be broken down as listed below. The final competency for this course is the Technology Fundamentals Test.

- Completion grade (chapter labs, quizzes, tests) = 5%
 - Completion of notes grade = 5%
 - Content Proficiency Grade based on the rubric = 64%
 - Framework grade = 5%
 - Final Competency Test = 21%

	IWS	E	N	PA/Apprentice	J/Teach
Performance Level	Insufficient Work Shown	Exposure	Novice	Proficient	Journeyman/Teach
Definition of Performance Level	The student does not provide sufficient work to evaluate the essential content, knowledge, and/or skills needed to demonstrate proficiency.	With <i>significant</i> supervision and/or prompting the student can demonstrate, apply, or transfer the essential content, knowledge, and/or skills needed to demonstrate proficiency.	With <i>minimal prompting</i> and/or assistance the student can demonstrate, apply, or transfer the essential content, knowledge and/or skills needed to demonstrate proficiency.	The student can <i>independently</i> demonstrate, apply, or transfer the essential content, knowledge, and/or skills on a new task or in a new situation.	The student <i>consistently and independently</i> demonstrates the ability to analyze, integrate, or formulate progressive or new knowledge and/or skills on a new task or in a new situation.

Late Work, Make-Up, and Redo Policy

Late Work

Work for the current module is considered due by midnight the day before a scheduled Module (unit) Test. Students may receive no more than 70% for any late assignment. Any missing or late assignment may be submitted up to two (2) school business days after the due date. Exceptions to this policy may be requested by the student in writing or email. The instructor will make the final determination on extension requests and will inform the student of the decision.

Make-Up Work

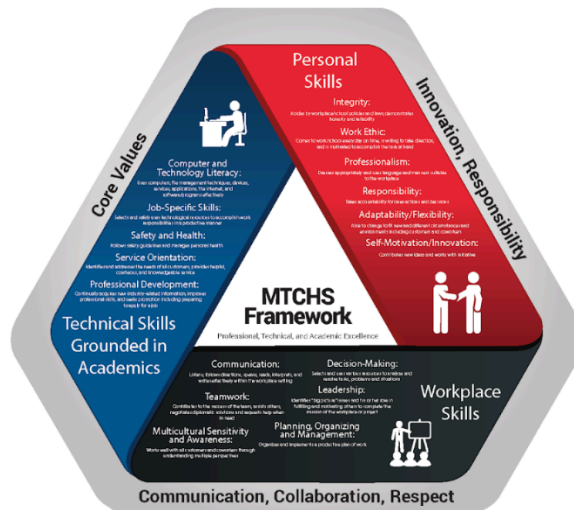
Students may be allowed up to two days per unexpected absence to complete make-up work. Unexpected absences are those due to sudden illness, injuries or death in a family. In general, tests will not be rescheduled, the instructor will make this final determination on a case by case basis.

Re-dos

If a student receives below a 70% on a test, a student may redo that test for a grade up to 70%. The instructor will determine the date by which the redo needs to be completed.

Workplace Skills

In order to prepare for the internship, students will be instructed and assessed on the MTCHS Framework skills. This is done throughout the course and woven into various activities. Sophomore and Junior year, students will focus primarily on Workplace Skills.



Workplace Skills

Teamwork:
Contributes to the success of the team, assists others, negotiates diplomatic solutions and requests help when in need

Leadership:
Identifies "big picture" issues and his or her role in fulfilling and motivating others to complete the mission of the workplace or project

Communication:
Listens, follows directions, speaks, reads, interprets, and writes effectively within the workplace setting

Decision-Making:
Selects and uses various resources to analyze and resolve tasks, problems and situations

Multicultural Sensitivity and Awareness:
Works well with all customers and coworkers through understanding multiple perspectives

Planning, Organizing, and Management:
Organizes and implements a productive plan of work