

Roma High School

Course Description: **Networking (Telecom)**

Course Objectives: Introduction to Telecommunications provides students with the fundamental background knowledge in the theory, mediums of transmission, topologies and functions of systems used in businesses and Smart Homes. Students assemble, test and troubleshoot audio, visual, IR, wired and wireless connectivity systems to explore these principles. During this course students are also familiarized with on the job safety procedures to ensure personal protection and protection of networking devices. *Students who successfully complete this program receive a C-Tech industry standard certification in Intro to Telecommunications Technologies with 30 CEC credits.*

Course Description: **Networking Lab (Copper)**

Course Objectives: Introduction to Networking Cabling - Copper Based Systems provides students with the knowledge and skills needed to become certified entry-level technicians in the Network Cabling industry. The course focuses on: *Proper tool use and construction techniques *The characteristics of various industry standards *Troubleshooting and repair. Students construct, test, and troubleshoot copper-based cabling systems that are the basis of today's networking, cable television and satellite communications systems. The industry standards include both commercial and residential structures. Troubleshooting includes a whole chapter on testing copper-based systems. There's a chapter on networks too, - wired and wireless. All the latest information is included, on CAT 6 and quad-shield coax, VoIP, smart homes, and more. *Students who successfully complete this program receive a C-Tech industry standard certificate in Network Cabling Specialist - Copper with 29 CEC credits.*

Course Description: **Networking Lab (Fiber)**

Course Objectives: Introduction to Network Cabling - Fiber Optic-Based Systems provides students with a theoretical and hands-on knowledge of Fiber Optics. This course is designed with input from industry professionals and educators. Fiber Optics certification is a perfect complement to Copper certification. The two together make up an unbeatable skill set much in demand by employers. Students learn the basics of cable termination, testing and troubleshooting using sophisticated electronic equipment. They terminate fiber optic cables with ST and SC connectors, two of the industry standards, and perform a mechanical splice. They get into the theory of fiber optics and calculate a system loss budget. *Students who successfully complete this program receive a C-Tech industry standards certificate in network Cabling Specialist-Fiber with 21 CEC credits.*

Course Description: **Business Information Management 1 (BIM1)**

Course Objectives: Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. *Certification: MOS Word Expert*

Course Description: **Independent Study in Tech Applications (INDEPEND ST)**

Course Objectives: Independent Study provides a means for students to make up missed class credit that is needed in order to graduate. This class offers online credit recovery courses so students can have the chance to learn at their own pace independently through modules. These courses are built to support learners who may need additional motivation and remediation. Motivational learning encourages resilience, perseverance, and self-management to help them reframe their struggles as opportunities for future success.

Teacher:

Ms. Nora Abigail Ortega ♦ Room A-12 ♦ (aortega@romaisd.com)

Office Hours: 8:30 am – 9:22 am

Needed Materials:

1. Headsets/Earphones (optional)

Class Rules/Expectations:

Wonder what to BE in this classroom?

1. BE PROMPT – Follow Directions and Be On Time.
2. BE SAFE – Keep hands, Feet, and Objects to Yourself.
3. BE SWEET – No harassments or Putdowns.
4. BE RESPECTFUL – Respect Yourself and Others.
5. BE PREPARED – Be Prepared and Bring your appropriate supplies daily.

Computer Rules:

1. No Mess – You need to clean up your area after use: Push in chair, throw away trash, etc.
2. No Eating – No eating food or candy or drinking near the computers.
3. No Sharing – No unauthorized sharing of work. If it occurs, automatic zero for all parties involved.
**You must report any problems with the computer at the beginning of the period, ASAP. Do not wait for the end of the period.

Consequences:

1. Warning
2. Privileges Removed
3. Notify Parents
4. Parents Conference
5. Referral (* In the event of a severe infraction, the offense may be sent directly to the office.)

Grading:

- 25% Tests/Projects/Quizzes
- 60% Daily work/Assignments
- 15% Six Weeks Exam