



West Shore Career-Technical
District

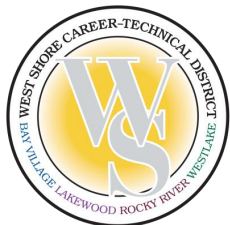
2018-19 Programs

for
High School Students
of the
West Shore Districts

Bay Village
Lakewood
Rocky River
Westlake
LCA

Programs & Courses for 2018-2019

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The West Shore Career-Technical District offers the programs listed in this catalog to students of the ***Bay Village, Lakewood, LCA, Rocky River and Westlake*** school districts. Our Career-Technical Education programs have consistently received high marks on its report card and is recognized as one of the finest in the state. Many of our graduates continue their education at two-or four-year colleges while others are employed upon graduation.

Often talented students overlook a career technical program during their high school years because they believe that, since they are planning to go to college, they need to be on an exclusively “college prep” academic track. While this may have been true a generation ago, it is no longer true today. Many college prep students have found rigorous career tech programs actually *enhance* their college preparation rather than compete with it. These are students who are typically more focused than their peers because they

- ❖ Possess a career direction and a vision of their lives beyond just today
- ❖ Have planned with their counselors how to fit academics and career tech into four years of high school
- ❖ Have developed good time management skills
- ❖ Possess the social and emotional maturity that allows them to take a risk on a new experience

For example, students who think they may want to study business, accounting, finance, marketing or management in college may want to consider one of the programs in the **Business** section to get a head start on what will be taught in college. This is true as well for students interested in a medical, teaching or engineering career~ think about **Health Careers, Early Childhood Education or Pre-engineering**. Is technology your passion? Then consider something in **Media Art and Design, Electronics or Networking**. **Culinary, Automotive, and Construction** are even more opportunities to combine college and career tech. Our newest program, **Theatre Arts** is perfect for a student interested in taking their theater passion to the next level. Look at the possibilities in a West Shore Career-Technical program and *dare to dream what you could do*.

Employers and college admissions officers like career technical graduates because they know they have had hands-on training and real-world experience in their chosen field of interest. Learning **about** something is not the same as learning how to **do** something. Career-technical programs at West Shore emphasize both. Students graduate from our one or two-year programs with *documented evidence* of their academic knowledge, technical skills and experience that will take them to the next step of their education as well as to entry level *skilled* employment. In addition, many of our programs offer the opportunity for students to obtain industry credentials as a result of their mastery of the topics studied. Please see our website: <http://www.lakewoodcityschools.org/westshore> for specific program information.

West Shore Career-Tech College Credit Options



The West Shore Career-Technical Programs offers students the opportunity to earn college credit similar to Advanced Placement (AP) courses. The college credit is in a technical area related to the Career-Tech program. Students earn credits by meeting the college requirements, passing the Ohio Department of Education's End Of Course exams or passing the related industry credential. Students need to complete the required paperwork and meet deadlines to earn the college credit.

The following West Shore Career-Tech programs offer college credits*:

Automotive Technology	3-5 college credit hours
Business Management	3-17 college credit hours
Construction Trades	6-12 college credit hours
Culinary Arts	8-13 college credit hours
Early Childhood Education	3-6 college credit hours
Electronic Engineering Technology	10-12 college credit hours
Engineering Technology	5-15 college credit hours
Health Careers Technology	3-7 college credit hours
Media Arts and Design	6-12 college credit hours
Medical Office Management	6-20 college credit hours
Networking/Cisco	15-28 college credit hours
Theatre Arts	3 college credit hours

*College credits agreements are subject to change

College credit is accepted at Ohio public colleges where majors exists in the same career field. It is the discretion of private colleges to accept these college credits.

Some of the following colleges and universities that are eager to accept CTE College credits:

Cleveland State	Culinary Institute of America	Cuyahoga Community College
Duke University	Hocking College	Johnson & Wales University
Lincoln College of Technology	Lorain Community College	Kent State University
Ohio University	Purdue University	The Ohio State University
Sullivan University	Sinclair Community College	Stark State
	The University of Akron	The University of Toledo
		VMCAD College

For more information: www.lakewoodcityschools.org/westshore

To apply for a West Shore Career-Tech program: <http://tinyurl.com/apply>

Grading Scale

Points assigned for letter grades in determining grade point averages in West Shore Programs.

Letter Grade	Percentage
A+	97-100
A	93-96
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
F	0-59



APPLY online at www.lakewoodcityschools.org/westshore

OR

<https://tinyurl.com/wsapply>

Arts and Communication

Media Art and Design 1 – AM

0630 Full Year – 3 Credits
Open to Grade 11 3 periods per day/15 periods per week



The following two courses are taken and required for Media Art and Design 1:

- Photographic Composition
- Digital Print Design

Application required

Prerequisite: Algebra 1 (completed or currently passing) Suggested: Artistic Ability

Media Art and Design 2 – PM

0640 Full Year – 3 Credits
Open to Grade 12 3 Periods per day/15 Periods per week

The following three classes are taken and required for Media Art and Design 2:

- Motion Graphics
- Multi-Media Web Production
- Media Art and Design Capstone

Prerequisite: Media Art and Design 1

Recommended: Algebra 2 and Digital Media

DRAW – ANIMATE– CREATE – DESIGN!!

This **two-year intensive program** provides students with the opportunity to learn industry-based computer graphic and text applications such as digital design, digital photography, graphic design, web page design, video editing, page layout, and animation in a lab situation. Students will learn to use various software including Adobe Photoshop, Illustrator, Dreamweaver, Indesign, Flash and Final Cut Pro starting at basic levels and working to achieve professional skills.

College Credit Possible – Student must fulfill requirements of the college

Career Technical Student Organizations - Skills USA & Business Professionals of America

Internship Possibilities (paid or unpaid) – Work experience 2nd semester senior year, 15 hours per week in a related occupation.

Possible Career Opportunities:

- Computer Graphics Design
- Audio/Video Specialist
- Production Assistant
- Traditional Media Production
- Web Page Designer
- Media Writer
- Interactive Media Producer
- Illustrator
- Storyboard Artist
- Digital Photographer
- Animator

APPLY online at: www.lakewoodcityschools.org/westshore or <https://tinyurl.com/wsapply>

Theatre Arts 1 and 2 – AM (offered 2018 -2019)**0450 Full Year – 2 Credits****Open to Grade 11 2 periods per day/10 periods per week****Open to Grade 12 (Provided they have successfully completed Theatre Arts 1)****The following two courses are taken and required for Theatre Arts 1 & 2:**

- **Acting Performance**
- **Costuming & Makeup**
- *** Theatre Arts Capstone (optional 2 additional credits)**

*Application and Interview required**Prerequisite: Algebra 1 (completed or currently passing) Recommended Prerequisite: Drama***Theatre Arts 1 and 2 – (offered 2019-2020)****0440 Full Year – 2 Credits****The following two courses will be taken and required for Theatre Arts 1 & 2 (2019-2020)**

- **Acting & Script Analysis**
- **Stagecraft**
- *** Theatre Arts Capstone (optional 2 additional credits)**

*Application and Interview required**Prerequisite: Algebra 1 (completed or currently passing) Recommended Prerequisite: Drama*

This is a **2-year** program that will prepare students for careers in various aspects of the dramatic arts. Through dramatic text analysis, criticism, and playwriting, students will learn how theatre is crafted, as well as how it functions as a workplace. They will practice the principle aspects of production design through units focused in stage equipment, scene painting, set construction, lighting and audio operations, costume design, and makeup application.

Students will also learn the fundamentals of vocal projection, movement, and emotion and apply these skills to a series of scene studies from dramatic masterpieces. They will then examine program requirements for various college theatre programs and prepare monologues and/or portfolios, create professional resumes, and fine tune their audition and interviewing skills.

Students will have the additional opportunity in the *Theatre Arts Capstone course to receive credit for both in-school and/or out of school learning experiences.

College Credit Possible – Student must fulfill requirements of the college

Possible Career Opportunities:

- *Acting*
- *Playwriting*
- *Literary Criticism*
- *Directing*
- *Lighting & Sound Design*
- *Costume & Set Design*
- *Makeup Design & Application*

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BUSINESS AND ADMINISTRATIVE SERVICES

Business Management 1 – AM

6100 **Full Year/ 2 Credits**
Open to Grade 11 **2 periods per day/10 periods per week**



The following 3 courses are taken and required for Business Management 1:

- **Business Foundations (semester)**
- **Marketing Principles (semester)**
- **Management Principles**

Application required

Suggested: Computer Applications

Prerequisite: Algebra 1 (completed or currently passing)

Business Management 2 - PM

6110 **Full Year/2 Credits**
Open to Grade 12 **2 periods per day/10 periods per week**

The following course is taken and required for Business Management 2:

- **Office Management**
 ***Business Management Capstone (optional 2 additional credits)**

Prerequisite: Successful completion of Business Management 1

Suggested: Algebra 2

This **two-year program** is designed for those students wishing to pursue a career in business. Students will study accounting, management functions, entrepreneurship, marketing, human resources, risk management, and economics. Students will receive the training necessary for passing the Microsoft Office Specialist certifications in Word, Excel, PowerPoint, Access, Outlook, and OneNote. These experiences help develop skills in organization, planning, delegating and supervising. Senior students meeting the requirements will be eligible for internship and early placement during the senior year.

Students will have the additional opportunity in the *Business Management Capstone course to receive credit for both in-school and/or out of school learning experiences.

Internship Opportunities (paid or unpaid) – Work experience senior year, 10 hours per week in a related occupation

Certification – Microsoft Office Specialist in Word, Excel, Access and PowerPoint

College Credit Possible - Student must fulfill requirements of the college

Possible Career Opportunities:

- *Entrepreneur*
- *Office manager*
- *Business Manager*
- *Office Assistant*
- *Accountant*
- *Sales Representative*

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Medical Office Management 1 - AM

6930
Open to Grade 11

Full Year – 2 Credits
2 periods per day/10 periods per week



The following two courses are taken and required for Medical Office Management 1:

- **Business Foundations**
- **Office Management**

Application required

Prerequisite: Algebra 1 (completed or currently passing)

Suggested: Computer Applications

Medical Office Management 2 - PM

6940
Open to Grade 12

Full Year – 3 Credits
3 periods per day/15 periods per week

The following two courses are taken and required for Medical Office Management 2:

- **Fundamentals of Business & Administration Services**
- **Medical Office Management**
 ***Medical Office Management Capstone (optional 2 additional credits)**

Prerequisite: Successful completion of Medical Office Management 1

Suggested: Algebra 2

Students in this **two-year program** will learn the skills needed to prepare for employment in a healthcare providers' office, clinic, or hospital. The typical physician rarely has time to attend to the administrative responsibilities of the office and is turning toward administrative assistants to schedule patients, maintain medical communications, manage financial records and perform front-desk operations. Senior students will be scheduled for internships in the medical office field during year two.

Students will have the additional opportunity in the *Medical Office Management Capstone course to receive credit for both in-school and/or out of school learning experiences.

Internship Opportunities (paid or unpaid) – *Work experience senior year, 10 hours per week in a related occupation.*

Certification – *Preparation for Microsoft Word, Excel, Outlook, and PowerPoint*

College Credit Possible - *Student must fulfill requirements of the college*

Possible Career Opportunities:

- *Medical Office Assistant*
- *Medical Records Management*
- *Benefits Coordinator*
- *Claims Processor*
- *Admissions Specialist*
- *Physician's Secretary*
- *Unit Secretary*

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CONSTRUCTION TECHNOLOGIES

Construction Trades 1 - PM

0580 **Full Year – 3 Credits**
Open to Grade 11 **3 periods per day/15 periods per week**



The following two courses are taken and required for Construction Trades 1:

- **Construction Safety & Crew Leadership**
- **Carpentry and Masonry Technical Skills**

Application required

This is a **two-year program**. The junior class will work in the lab at Lakewood High School. Students will focus on new home construction and remodeling. At the completion of the program, successful students will be certified in the core curriculum of NCCER (National Center for Construction and Education Research). Students are required to purchase their own tools, work boots, and safety glasses.

Construction Trades 2 - AM

0590 **Full Year – 4 Credits**
Open to Grade 12 **4 periods per day/20 periods per week**

The following two courses are taken and required for Construction Trades 2:

- **Structural Systems**
 - **Plan Reading**
- *Construction Trades Capstone (optional 2 additional credits)**

Prerequisite: Successful completion of Construction Trades 1

The second year of the Construction Trades program is designed to provide skill training in home remodeling and new home construction with an emphasis on carpentry. In the senior year students will do construction projects in the West Shore area.

Students will have the additional opportunity in the *Construction Trades Capstone course to receive credit for both in-school and/or out of school learning experiences.

Career Technical Student Organization: Skills USA

Internship Opportunities (paid or unpaid) – Work experience 2nd semester senior year, 15 hours per week in a related occupation.

Apprentice Opportunities may be available

College Credit Possible – Student must fulfill requirements of the college

Possible Career Opportunities

- *Construction*
- *Carpenter*
- *Multiple Apprenticed Trades*
- *Drywall*
- *Roofer*
- *Project Manager*
- *Engineer*

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EDUCATION & TRAINING

Early Childhood Education 1 - AM

0780 Full Year – 3 Credits
Open to Grade 11 3 periods per day/15 periods per week
Application required
Suggested: Algebra 1



The following two courses are taken and required for Early Childhood Education 1

- Introduction to Early Childhood Education
- Infant and Toddler Curriculum

Early Childhood Education 2 - PM

0790 Full Year – 3 Credits
Open to Grade 12 3 periods per day/15 periods per week
Prerequisite: Successful Completion of Early Childhood 1
Suggested: Algebra 2

The following two courses are taken and required for Early Childhood Education 2

- Curriculum and Instruction for Early Childhood Education
 - Classroom Management
- *Early Childhood Education Capstone (optional 2 additional credits)

This is a **two-year program**. Experience an exciting and rewarding opportunity to work with children from infants to nine year olds. Daily hands-on involvement is provided at off-campus sites, which includes working with infants, toddlers, preschool, and kindergarten through third grade. Through the student's hands-on work, they will acquire skills in child and adolescent development, observation and assessment, curriculum and instruction, and classroom management. Prerequisites for the program include a physical exam, a background check, TB Test and a pre-enrollment interview.

Students will have the additional opportunity in the *Early Childhood Education Capstone course to receive credit for both in-school and/or out of school learning experiences.

Internship Opportunities (paid and unpaid) Work experience 2nd semester senior year, 15 hours per week in a related occupation.

Career Technical Student Organization: Educator's Rising

Certifications: First Aid, CPR/AED, Communicable Disease, Child & Adult Abuse Prevention

College Credit Possible - Student must fulfill requirements of the college

Possible Career Opportunities:

- Day Care Teacher
- Elementary School Teacher
- Physical Education Teacher
- Special Education Teacher
- Preschool Teacher
- Music, Physical, and Occupational Therapist
- Recreation Centers for Children
- Social Worker
- Nanny
- Teacher's Aide
- Child Life Specialist

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ENGINEERING & SCIENCE TECHNOLOGIES

Electronic Engineering Principles - AM

0730 Full Year – 1 Credit
Grade 10 1 Period per Day/5 periods per Week

Open to and required for Grade 11 if the student has not taken



This is an introductory program for basic electronic/electrical engineering principles and concepts. Students will gain knowledge in the core fundamentals needed to ensure continued success in the electronic engineering field. Students will experience both the theory of circuitry and hands-on practical experiences in the workshop. All tools and equipment will be provided.

Electronic Engineering Technology 1 - AM

0740 Full Year – 2 Credits
Open to Grade 11 2 periods a day/10 periods per week

The following two courses are taken and required for Electronic Engineering Technology 1:

- Analog Based Electronic Devices
- DC & AC Electronic Circuits

Application required

Prerequisite: Electronics Pre-Engineering Technologies and Algebra 1 (passed or currently passing)

Electronic Engineering Technology 2 - PM

0750 Full Year – 3 Credits
Open to Grade 12 3 periods a day/15 periods per week

The following three courses are taken and required for Electronic Engineering Technology 2:

- Robotics
- Digital Electronics
- Engineering Capstone

Prerequisite: Successful completion of Electronic Engineering Technology 1 and Algebra 2

Electronic Engineering Technology is a **two-year program** that will provide students the opportunity to explore the fundamental concepts of electronic engineering. This program provides students with the skills necessary to pursue this as a career after high school or for those students who wish to continue their education, they will have acquired a strong foundation to the engineering fields. During **year 1** students will receive instruction in both AC & DC circuits and analog based electronics. They will experience instruction in both theory and practical applications in the workshop. Students will learn through project based outcomes. In their **second year** students will have acquired skills in Robotics, Digital Circuitry, Computer Principles, AC & DC theories and circuits, as well as instruction in information transfer and basic amplifiers and speaker operations. Students will have access to a 3D printer, designer software, digital equipment and other electronic simulation software tools. Students will gain experience working with both Analog and Digital Oscilloscopes and other key equipment required of engineering students.

*Internship Opportunities (paid or unpaid) – Work experience 2nd semester senior year
15 hours per week in a related occupation*

College Credit Possible – Student must fulfill requirements of the college

Possible Career Opportunities:

- Communication Service
- Computer Technician
- Field Service

Digital Electronics

8830 **Full Year – 1 Credit**
Open to Grade 12 **1 period per day/5 periods per week**

Prerequisite: Successful completion of Introduction to Engineering, Principles of Engineering and Algebra 2

Digital Electronics is a course in applied digital logic. Students are introduced to the digital circuits found in video games, watches, calculators, digital cameras and thousands of other devices. They use industry standard, electronic design software to build circuits and to export designs to a printed circuit auto routing program. This course is similar to a first semester college course.

Engineering Capstone

8840 **Full Year—1 Credit**
Open to Grade 12 **1 period per day/5 periods per week**

Prerequisite: Successful completion of Introduction to Engineering, Principles of Engineering and Algebra 2

This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the three preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year.

College Credit Possible - Student must fulfill requirements of the college

Possible Career Opportunities:

- *Industrial and Manufacturing Engineer*
- *Mechanical Engineer*
- *Civil Engineer*
- *Electrical and Computer Engineer*
- *Landscape Designer*
- *Welding Engineer*
- *Aerospace Engineer*
- *Urban Planner/Designer*

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HEALTH SCIENCE



Health Careers Technology 1 - PM

6950 **Full Year - 3 Credits**
Open to Grade 11 **3 periods a day/15 periods per week**

The following three courses are taken and required for Health Careers Technology 1:

- **Health Science and Technology**
- **Principles of Allied Health**
- **Patient Centered Care**

Application required

Prerequisites: Algebra 1 (completed and/or passing) and Biology/Lab; meeting graduation requirements

Must have a serious interest in learning to provide care to individuals with health issues.

Health Careers Technology is a **two-year program** that introduces students to medical careers involving **hands-on patient care in a variety of settings** including hospitals and nursing homes. The program provides State Tested Nurse Aide training – leading to entry level employment in the health care field. This program is intended for students who are interested in furthering their education in a medical career. *Admission into this program is highly competitive.*

Health Careers Technology 2 - AM

6960 **Full Year - 3 Credits**
Open to Grade 12 **3 periods a day/15 periods per week**

The following two courses are taken and required for Health Careers Technology 1:

- **Medical Terminology**
- **Health Science Capstone**

*Prerequisite: Completed/passed Health Careers Technology 1; **Must have STNA License**; completed or enrolled in Algebra 2*

Suggested: Anatomy & Physiology, Chemistry

Students use their training and skills in the clinical setting at a hospital and other facilities in order to gain real experience. In addition, an emphasis on the study of disease, medical terminology and health care ethics provides the opportunity to earn college credit.

Career Technical Student Organization: *Participation in HOSA (Health Occupation Students of America)*

Certifications: *First Aid, CPR, State Tested Nurse Aide (STNA)*

College Credit Possible – *Student must fulfill requirements of the college*

Possible Career Opportunities with Further Education:

- *Nursing: RN, LPN*
- *Pre-Medicine*
- *Pharmacist, Pharmacy Technician*
- *Physical or Occupational Therapy*
- *Radiologist, Radiology Technician*
- *Health Science Technologies*
(Ultrasound, Lab, EKG, Phlebotomy,
Medical Assisting, Emergency Medical Tech)

HOSPITALITY & TOURISM



Culinary Arts/ProStart Internship 1 – AM

8555 Full Year –4 Credits
Open to Grade 11 4 periods per day/20 periods per week

The following two courses are taken and required for Culinary Arts/ProStart Internship 1:

- Hospitality Fundamentals
- Fundamentals of Food Production

Prerequisite: One foods class, food prep experience or department approval

Suggested: Algebra 1

Application required

Culinary Arts is a **two-year** curriculum designed for students who wish to pursue a career in the food service/hospitality industry. **During year 1**, students will learn the fundamentals of food preparation such as: safety, sanitation, knife cuts, stocks, soups and sauce, cooking methods. They will apply plating and presentation principles to deliver attractive menu items, establish food specifications and prep lists, and develop ingredient and portion control guidelines. Students will prepare menu items for the Ranger Cafe, a student run restaurant that is open to the public. The restaurant provides a realistic hands on approach to better prepare students for the foodservice industry. Students are then expected to obtain a job in the foodservice/hospitality industry and work part time by the end of their junior year.

Students will prepare for certification by the National Restaurant Association (NRA) and the Ohio Department of Health by completing the ServSafe curriculum for food safety training. This will allow students to act as Person in Charge for food facilities, schools, churches, etc. This covers principles of food microbiology, food borne diseases, and standards and measures for prevention of foodborne diseases. Students will have the opportunity to earn ServSafe certification if they pass the national certification exam.

Culinary Arts/ProStart Internship 2 - PM

8565 Full Year – 4 Credits
Open to Grade 12 4 periods per day/20 periods per week

The following two courses are taken and required for Culinary Arts/ProStart Internship 2:

- Dining Room Service and Operations
 - Restaurant Management
- *Hospitality and Tourism Capstone (optional 2 additional credits)**

Prerequisite: Successful completion of Culinary Arts/ProStart Internship 1

Suggested: Algebra 2

During year 2, students are responsible for the food and beverage production and table service of the West Shore Career Technical restaurant, the Ranger Café @ West Shore. Students are expected to continue to work in culinary arts and/or a hospitality position and earn a minimum of 200 hours to earn ProStart Certification. Students will also gain on the job training working in the Ranger Café. Passage of both the ProStart 1 and 2 exams and the successful completion of a work experience evaluation can lead to ProStart certification upon graduation. Transportation to work sites is the student's responsibility. Students will apply strategies and techniques to identify and meet dining guest needs. They will provide table and beverage service; maintain eating areas, meeting spaces and serving stations, and take and manage reservations. Other topics include food science, nutritional analysis, business law and ethics, and economics and marketing.

Students will have the additional opportunity in the *Culinary Arts Capstone course to receive credit for both in-school and/or out of school learning experiences.

Career Technical Student Organization: FCCLA

Certifications: ServSafe, ProStart

Internship Opportunities (paid and unpaid)

College Credit Available - Student must fulfill requirements of the college

Possible Career Opportunities:

- *Line/Prep Cook/Chef*
- *Caterer*
- *Dietary Assistant*
- *Host/Hostess*
- *Waiter/Waitress*

Career Opportunities with Further Education

- *Executive Chef*
- *Pastry Chef*
- *Sales associate with foodservice company*
- *Banquet manager*
- *Restaurant Manager*
- *Product research and development*
- *Food & beverage director*
- *Restaurant owner/franchisee*
- *Food science*
- *General manager*

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INFORMATION TECHNOLOGY

Networking/Cisco 1 - AM

6975 **Full Year – 2 Credits**
Open to Grade 11 **2 periods per day/10 periods per week**



The following two courses are taken and required for Networking/Cisco 1:

- **Routing and Switching**
- **Network Operating Systems**

Application required

Prerequisite: Algebra 1

Suggested: Exploring Technology and Introduction to Programming

Networking/Cisco 2 - PM

6980 **Full Year – 2 Credits**
Open to Grade 12 **2 periods per day/10 periods per week**

The following two courses are taken and required for Networking/Cisco 2:

- **Network Management Systems**
- **Network Security**
*Networking/Cisco Capstone (optional 2 additional credits)

Prerequisite: Successful completion of Networking 1

Suggested: Algebra 2, Exploring Technology, Introduction to Programming

This is a **two-year program**. Designing, installing and maintaining computer networks are skills much in demand. Networking is a two-year college Tech Prep program that prepares students to take both the Cisco Certified Entry Network Technician (CCENT) exam and the industry-standard, Cisco Certified Network Associate (CCNA) exam. CCENT is an optional first step toward earning the Cisco CCNA certification which is the foundational certification for networking careers. With Cisco System's curriculum and hands-on labs, students learn the latest industry networking standards and technologies, including network design, set-up, hardware maintenance and administration.

Students will have the additional opportunity in the *Networking/Cisco Capstone course to receive credit for both in-school and/or out of school learning experiences.

Internship Opportunities (paid or unpaid) –Work experience 4th quarter senior year, 15 hours per week in a related occupation.

College Credit Possible - Student must fulfill requirements of the college

Possible Career Opportunities:

- *Computer Networking and Enterprise Management*
- *CISCO Certified Network Associate*
- *Computer Systems Technician*
- *CISCO Channel Partner*
- *Network Operations Center*
- *Network Engineer*
- *Sales Support Engineer*
- *Data Networking Technician*

Average Salaries of Popular Certifications

ComptIA A+	\$63,699
Cisco CCENT	\$65,750
Cisco CCNA	\$79,699
CCNA Security	\$81,400
CCIE R&S	\$125,800

Source: TechRepublic & Global Knowledge 2013 IT Skills and Salary Report

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TRANSPORTATION SYSTEMS

Automotive Technology 1 - AM

6823

Full Year – 4 Credits

Open to Grade 11

4 periods per day/20 periods per week



The following four courses are taken and required for Automotive Technology 1:

- Ground Transportation Maintenance
- Ground Transportation Engine & Power Train
- Ground Transportation Electrical/Electronics
- Automotive Braking Suspension and Steering System

Prerequisite: Algebra I (passed or currently passing)

Application required

This is the first year of a **two-year program** which is focused on industry standards based on both the State of Ohio and the ASE/NATEF curriculum. The first year covers shop and safety practices, tools, equipment handling/operation, and basic introduction to servicing a vehicle. Also covered are these automotive systems: brakes, steering, suspension, electrical, engines, and drivetrain. Classroom lessons correlate with active ‘hands on’ lab activities. Students have the opportunity to take student ASE tests and will receive a certificate with a passing grade.

Automotive Technology 2 - PM

6820

Full Year – 3 Credits

Open to Grade 12

3 periods per day/15 periods per week

The following three courses are taken and required for Automotive Technology 2:

- Ground Transportation HVAC
- Automotive Engine Performance
- Transportation Capstone

Prerequisite: Successful completion of Automotive Technology 1

Suggested: Algebra 2 completed prior to or during the 12th grade

This is the **second year** of the Automotive Technology program which follows the same guidelines as year one. Areas covered are: heating and air conditioning, engine performance, and the transportation capstone. All materials covered from the previous year are continually reinforced. Classroom lessons correlate with the active “hands-on” lab. Students have the opportunity to take student ASE tests again and will receive a certificate upon passing.

Internship Opportunities (paid or unpaid) – Work experience 2nd semester senior year, 15 hours per week in a related occupation for students with a B (3.0) or higher

Certifications: This program prepares students for ASE testing after graduation

College Credit Possible - Student must fulfill requirements of the college

Possible Career Opportunities:

- | | |
|------------------------------|--------------------------|
| ○ Auto Mechanic/Technician | ○ Alignment Specialist |
| ○ Auto Dealership Technician | ○ Service Advisor/Writer |
| ○ Parts Departments | ○ Maintenance Technician |
| ○ Sales/Management | |

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SEMESTER ELECTIVES

Child Development

8410 ½ Year – ½ Credit

Open to Grades 10-12 5 periods per week

No Prerequisite

Discover more about yourself and your own development by exploring child development stages. Content includes the importance of healthy lifestyles during pregnancy, newborn care, stages of development in infancy, toddler and preschool years, the importance of play, communication, parenting skills, and child care careers. Guest speakers in their areas of expertise will offer insight. If you have any interest in elementary education, childcare careers, learning parenting skills, or learning more about how child development affects adult development, you should take this course. This course would be a good supplement to Early Childhood/Senior Services. *Reality Works Simulation Baby is a requirement.*

Creative Cooking

8310 ½ Year – ½ Credit

Open to Grades 10-12 5 periods per week

Prerequisite: Completion of at least one other food/nutrition course

This course is for the student who wishes to expand their cooking skills beyond the basics. Creative Cooking focuses on food preparation techniques such as broiling, sautéing, baking, and frying. An emphasis is placed on applying new techniques in the kitchen and on making all parts of a meal from scratch. Students will learn the components of food presentation and will have the opportunity to put their creative skills to the test by being involved in a cooking competition. Additionally, students will apply their learning of the selection and proper use of tools & equipment. Nutrition and application of how to make healthy food choices are topics that are also covered.

Everyday Cooking

8330 ½ Year – ½ Credit

Open to Grades 9-12 5 periods per week

No Prerequisite

In this course, students will gain knowledge of timesaving food preparation techniques. Students will learn to prepare quick-to-fix recipes for each meal of the day. Additionally, recipes will utilize appliances such as microwaves, food processors, woks, and blenders. Students will compare cost, quality and nutritional benefit of convenience food products to homemade products.

Experience with Foods

8370 ½ Year – ½ Credit

Open to Grades 9-12 5 periods per week

No Prerequisite

This is a course for students who wish to learn the basics of food preparation. Students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation.

Labs and classroom activities are centered around the main food groups, with other categories included, such as breads and pastries. Measuring techniques and kitchen safety and sanitation are other course topics covered. Nutrition and meal planning are covered throughout the course as well.

Fashion Design

8210 ½ Year – ½ Credit

Open to Grades 9-12 5 periods per week

No Prerequisite

Fashion Design is highly recommended for any student interested in pursuing fashion as a college major or career field. This course is project-based and students will learn to identify, analyze and apply production processes and techniques to textiles throughout the completion of various projects. Additionally, students will learn about different fashion designers who have influenced the fashion industry, as well as, how to analyze runway shows and interpret fashion trends. Other units covered in this course include: fibers and fabric construction, the history of fashion, sketching, and careers in fashion.

Global Foods

8350 $\frac{1}{2}$ Year - $\frac{1}{2}$ Credit

Open to Grades 10-12 **5 periods per week**

Prerequisite: Completion of at least one other food/nutrition course

The Global Foods course introduces students to the ways in which the culture and traditions of regions and countries influence food choices. Students will identify and prepare foods from various regions and countries to compare cuisines, ingredients used, and preferred cooking methods. Students will also examine the issues and conditions which affect the availability and quality of food in the global market. Current issues related to global nutrition from production through consumption will be explored. Through this investigation students will understand and appreciate diverse cultures. Students will have the opportunity to demonstrate their understanding of cuisines from different regions by participating in a cooking show demonstration. Students will have the opportunity to examine the wide variety of career paths in the global and gourmet foods fields and identify the knowledge and skills necessary for success within these fields.

Foods For Life

8360 $\frac{1}{2}$ Year - $\frac{1}{2}$ Credit

Open to Grades 10-12 **5 periods per week**

Prerequisite: Completion of at least one other food/nutrition course

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle.

Computer Applications

6380 $\frac{1}{2}$ Year – $\frac{1}{2}$ Credit

Open to Grades 9 - 12 **5 periods per week**

No Prerequisite

Recommended for all students in today's computer world. This course will introduce students to photo editing, computer drawing, basic computer maintenance, animation, web design, word processing and spreadsheets. Also included are Microsoft Word and Excel using the Microsoft Office 2013 edition suite.

Personal Finance

6270 $\frac{1}{2}$ Year – $\frac{1}{2}$ Credit

Open to Grades 10-12 **5 periods per week**

No Prerequisite

Do you want to learn how to handle money? Have you always wondered how the stock market works? This course teaches the fundamentals of personal finance, banking, credit, taxes, investing, and insurance. Understanding the connection between career choices, goal setting, and future income/earning potential empowers students to make informed decisions that lead to financial independence. Students actively participate in an online stock-trading simulation to learn how to invest and what to invest in. Practical applications such as writing checks, calculating interest, preparing a budget, buying/leasing a car, renting an apartment, and purchasing a home are included. This course fulfills the Financial Literacy graduation requirement.

Digital Media Technologies

6385 $\frac{1}{2}$ Year – $\frac{1}{2}$ Credit

Open to Grades 9-12 **5 periods per week**

No Prerequisite

Develop advanced technology skills and become an adept user of Adobe Photoshop and Illustrator software. These popular and powerful digital imaging software programs are used by visual and media arts professionals for the creation, editing, and manipulation of graphics and images. Students will use the software to create, edit, and restore pictures, illustrations, and art work for business applications, print media, and web design. The text book and video tutorials for this course are easy to follow and designed with the beginner in mind. Each week, students will complete interesting and

fun projects in a hands-on lab environment. Students will maintain a digital portfolio of their work during the semester. This class is appropriate for students interested in learning more about college and career opportunities in Animation, Graphic Design, Illustration, Multi-media Communication, Photography, Computer Game Design, and Web Design.

Exploring Technology

6390 **½ Year – ½ Credit**
Open to Grades 9-12 **5 periods per week**

No Prerequisite

All future jobs will require an understanding of technology. In this course, students develop an understanding of the progression of technology through hands-on exploratory experiences while enriching research and analytical skills. Topics include: cloud computing, social media, internet tools and applications, Web 2.0, digital citizenship, networking, HTML, web design, operating systems, e-commerce, smartphones, QR codes, computer hardware and software, tablets, and application development. Students will also understand and explore past, current, and future technology developments. Projects will focus on human-computer interaction, real-world applications, and emerging technologies. Through these activities, you will learn which of these areas might interest you for future course selections and career choices.

Introduction to Computer Programming

6395 **½ Year – ½ Credit**
Open to Grades 9-12 **5 periods per week**

No Prerequisite

Suggested: Algebra 1, Exploring Technology, Digital Media, Computer Applications

Students are introduced to the creative and dynamic field of computer programming by designing computer animations, graphics, and games in a hands-on learning environment. Using software designed for the beginning programmer, students are introduced to the essential components of all programming languages including: algorithm design, conditional execution, control structures, debugging, if statements, pseudo code, repetition, and variables. Following the software development lifecycle, students will enrich critical thinking, problem solving, and decision making skills. Programming projects will focus on research, design, collaboration, and application. Through partnerships with local colleges and businesses, students will also explore college and career opportunities in Computer Science and Information Technology. Understanding computer programming is a recognized 21st century skill. This class is an introduction for students interested in learning more about computer-based design in the Cisco Networking Program and the AP Computer Science Principles course.

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SPECIALIZED CAREER-TECHNICAL PROGRAMS

Transition to Work (AM)

0290 Full Year – 3 Credits
3 Periods per day/15 Periods per week

This program is a one-year job training program for students. Students work under the auspices of a teacher and aide in a variety of school settings including the Ranger Cafe@West Shore laundry room and the TTW classroom. This program is a preparatory class for students considering community based job training programs after their sophomore year. A team decision determines appropriateness of programs.

Community Based Training

Gordon Food Service Store (AM) Full Year – 3 Credits
0220 3 periods per day/ 15 Periods per week

Marriott (PM) Full Year – 3 Credits
0270 3 periods per day/15 Periods per week

Rae-Ann Suburban Nursing Facility (PM)
0260 Full Year – 3 Credits
3 periods per day/15 periods per week

Recommended: Career Assessment Evaluation

These programs provide students training in a variety of departments depending on their interests and abilities. They also help students assume responsibilities for important life decisions regarding jobs with the support of employers and teachers. Along with a teacher and educational aide, mentors within a company contribute to students developing competencies in social as well as work skills. This includes job exploration, time management, teamwork, and productivity.

On-the-Job-Training/Work Study

Full Year – ½ - 4 Credits
5 to 20 Periods per week

Recommended: Career Assessment Evaluation

Students receive support in pursuing employments and learn occupational skills on the job. The work involved is usually in single skill or entry-level positions. Credits are awarded as determined by the time spent on the job and approval of the Career-Technical Director.

The goals of this program are for students to gain experience in specific work skills and to develop independence and interest areas for future employment.

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