

APPLIED SCIENCES

COURSES OFFERED

Grade	No.	Course Title	Credit
<u>Industrial Technology</u>			
9-11	593	Introduction to Technology A	0.50
9-11	594	Introduction to Technology B	0.50
9-12	611	Engineering Graphics and Design	1.00
10-12	614	Architectural Design and Modeling	1.00
11-12	618	Product Design and Modeling	1.00
10-12	620	Practical Applications in Technology	1.00
10-12	630	Cisco I	1.00
10-12	631	Cisco II	1.00
<u>Family and Consumer Science</u>			
9-12	676	Life Choices	1.25
11-12	680	Family Living	0.50
9-12	681	Parenting and Child Development	0.50
11-12	682	On Your Own	0.50
10-12	683	Foods and Fitness	0.50
10-12	684	Global Gourmet	0.50
9-12	686	Interior Design and Housing	0.50
9-12	690	Conflict Management and Mediation	0.50
9-12	691	Creative Arts and Technology	0.50
<u>Vocational</u>			
Age 16+	694	Career Based Intervention Program	1.00
	695	Career Based Intervention Program	1.00
	696	Career Based Intervention Program	1.00

INTRODUCTION TO TECHNOLOGY A - 593

Prerequisite: None
 Elective
 Graded: Conventionally
 Time Frame: Semester

Grade: 9-11
 Credit: 0.50

Students are provided a comprehensive overview and introduction to the technology program. This course will introduce the student to the processes and application of design and problem solving associated with technological endeavors. Students will also examine the importance of technology and technological activity in shaping our interaction with our environment.

INTRODUCTION TO TECHNOLOGY B - 594

Prerequisite: Introduction to Technology A
 Elective
 Graded: Conventionally
 Time Frame: Semester

Grade: 9-11
 Credit: 0.50

Students will examine the design process in-depth and apply these skills to designing and building solutions to technological problems. Hands-on activities will focus on generating and developing ideas, modeling and prototyping, and testing and evaluating solutions.

ENGINEERING GRAPHICS AND DESIGN - 611

Prerequisite: None
 Elective
 Graded: Conventionally
 Time Frame: Year

Grade: 9-12
 Credit: 1.00

Students will study the graphic techniques required to develop three-view, isometric, and oblique drawings. Rendering and illustration are introduced to examine the importance of presentation of design ideas. Through the design process, students will investigate and develop solutions for contemporary problems.

ARCHITECTURAL DESIGN AND MODELING - 614

Prerequisite: Intro to Tech A or Engineering Graphics
 Elective
 Graded: Conventionally
 Time Frame: Year

Grade: 10-12
 Credit: 1.00

Students will study the basic architectural drawing techniques of building design. Students will examine and execute plans for basic construction and service systems. Three-dimensional modeling will allow students to assess the validity and appropriateness of their designs.

PRODUCT DESIGN AND MODELING - 618

Prerequisite: Intro to Tech A or Engineering Graphics
Elective Grade: 10-12
Graded: Conventionally Credit: 1.00
Time Frame: Year

Students will study the basic concepts of product and package design. Students will learn how to identify and clarify a problem, make an in-depth response and then create and test their solutions. Human-factors, engineering and production techniques are integral to this course.

PRACTICAL APPLICATIONS IN TECHNOLOGY- 620

Prerequisite: Arranged by Permission
Elective: Repeatable Grade: 10-12
Graded: Conventionally Credit: 1.00
Time Frame: Year

Through independent study and research, students explore and evaluate contemporary, computer-related technological problems. Students will gain insight into the design, development, implementation and maintenance of the school website.

CISCO I - 630

Prerequisite: Algebra I
Elective Grade: 10-12
Graded: Conventionally Credit: 1.00
Time Frame: Year
Recommendation: Teacher Recommendation

The Cisco Academy is designed to provide students with classroom and laboratory experience in current and emerging network technology that will empower students to enter employment or further education and training in the computer-networking field. The program is designed to teach students the skills needed to design, build, and maintain small to medium-size networks. In addition to networking and other technology skills, the Cisco Academy helps students improve math, science, writing and problem solving abilities.

This course is only offered at Dublin Coffman.

CISCO II - 631

Prerequisite: Cisco Academy I
Elective Grade: 10-12
Graded: Conventionally Credit: 1.00
Time Frame: Year

The Cisco Academy is designed to provide students with classroom and laboratory experience in current and emerging network technology that will empower students to enter employment or further education and training in the computer-networking field. The program is designed to teach students the skills needed to design, build, and maintain small to medium-size networks. In addition to networking and other technology skills, the Cisco Academy helps students improve math, science, writing and problem - solving abilities. Students will learn router and switch configurations, network trouble- shooting, design, and internet work maintenance.

This course is only offered at Dublin Coffman.

LIFE CHOICES - 676

Prerequisite: None
Elective Grade: 9-12
Graded: Conventionally Credit: 1.25
Time Frame: Year

Life Choices prepares students to manage the daily responsibilities of living independently. Independent skills to be addressed include decision-making, problem solving, food selection and preparation, clothing construction and purchasing, child development, and interior design. Interpersonal skills will be stressed. Membership in FCCLA and a service project are a part of the course.

FAMILY LIVING - 680

Prerequisite: None
Elective Grade: 11-12
Graded: Conventionally Credit: 0.50
Time Frame: Semester

In Family Living, students will develop skills in making decisions about dating, choosing a marriage partner, parenting readiness, and adjusting to life situations. Family communication, marital adjustments, and dealing with family crises are explored. The course is recommended for young men and women interested in improving their chances of a successful personal life after graduation. Membership in FCCLA and a service project are a part of the course.

PARENTING AND CHILD DEVELOPMENT - 681

Prerequisite: None
Elective Grade: 9-12
Graded: Conventionally Credit: 0.50
Time Frame: Semester

In Parenting and Child Development, students will become aware of the development and behavior of newborns, toddlers, preschoolers, and school-age children. Other topics will include discipline methods, needs of special children, childcare options, and stimulating environments for children. Students will observe and work with young children in a preschool/elementary setting. The course is recommended for young men and women interested in providing a quality environment for children. Membership in FCCLA and a service project are a part of the course.

ON YOUR OWN - 682

Prerequisite: None
Elective Grade: 11-12
Graded: Conventionally Credit: 0.50
Time Frame: Semester

On Your Own prepares students to meet the challenges of becoming independent persons. Basic life skills are stressed including selecting a career, obtaining a job, money management, renting and furnishing an apartment, clothing care and construction, and purchasing of resources. Membership in FCCLA and a service project are a part of the course.

FOODS AND FITNESS - 683

Prerequisite: None
Elective
Graded: Conventionally
Time Frame: Semester
Grade: 10-12
Credit: 0.50

Foods and Fitness involves the study of making sound, healthy life-style choices when eating out, grocery shopping or preparing foods at home. Students will examine what research indicates regarding a healthy, active life-style. Nutrition, consumer decisions when shopping and dining out, diets, food problems, convenience foods, and healthy preparation of all types of foods will be emphasized. Membership in FCCLA and a service project are a part of the course. **This course may not be taken within the same semester as Global Gourmet.**

GLOBAL GOURMET - 684

Prerequisite: None
Elective
Graded: Conventionally
Time Frame: Semester
Grade: 10-12
Credit: 0.50

Global Gourmet explores the study of food and health in other countries where research indicates people have fewer health problems. Topics of exploration include the food, diet, preparation techniques, and life-style of several countries. World food issues related to food, technology, and the choices consumers make to affect these issues will also be examined. **This course may not be taken within the same semester as Foods and Fitness.** Membership in FCCLA and a service project are a part of the course.

INTERIOR DESIGN AND HOUSING - 686

Prerequisite: None
Elective
Graded: Conventionally
Time Frame: Semester
Grade: 9-12
Credit: 0.50

Interior Design and Housing emphasizes decorating a home and the procedures involved in renting and buying a house. The principles and elements of design will be applied in projects and activities. Topics include the use of color, styles and arrangements, window, wall and floor treatments, and the use of accessories. Additionally, historic housing, architectural styles, and construction concerns will be examined.

CONFLICT MANAGEMENT AND MEDIATION - 690

Prerequisite: None
Elective
Graded: Conventionally
Time Frame: Semester
Grade: 9-12
Credit: 0.50

Conflict Management and Mediation focuses on the broad topic of conflict management and mediation. Students may receive certification as peer mediators. They will also explore subjects related to personal development such as: peer relationships, relating to others, stress and anger management, solving personal and family problems, and assuming a leadership role in school, community, and family life. Several hands-on projects and activities that include mediation training, guest speakers, field trips, guest panels, and the training of other peers and younger students will be undertaken. Membership in FCCLA and a service project are a part of the course.

CAREER BASED INTERVENTION PROGRAM - 694, 695, and 696

Prerequisite: None
Elective
Graded: Conventionally
Time Frame: Year
Minimum age of 16
Credit: 3.00

Career Based Intervention Program is a cooperative job-training course which requires one-and-a-half periods per day of classroom instruction. The students attend their regular classes and have release time to gain on-the-job training with community employers at a minimum of 540 hours per year. Students must furnish their own transportation to and from their job and school. Classroom instruction includes units of practical importance to students.

CREATIVE ARTS AND TECHNOLOGY - 691

Prerequisite: None
Elective
Graded: Conventionally
Time Frame: Semester
Credit: .50

In this course students will study how technology can be used to start a small business. Students will learn how to develop a business plan, use design software and technology, and operate the embroidery machine. Students will create a variety of marketable projects using technology and the sewing machine.