
CAREER & TECHNICAL EDUCATION

Advanced Manufacturing Pathway

ADVANCED MANUFACTURING 1 - IM112X0 1 CREDIT

ADVANCED MANUFACTURING 1 HONORS - IM115X0 1 CREDIT

Prerequisite: None

This course is the first part of a two-part sequence on the basic functional knowledge and skills needed in the advanced manufacturing environment. This course covers introduction to manufacturing, safety, and quality and is based upon the Manufacturing Skills Standards Council's (MSSC) Certified Production Technicians certification (CPT). CPT is recognized by manufacturers in NC and the USA as a fundamental certification needed by advanced manufacturing production workers. Topics included in this course include 21st century skills, working in manufacturing, understanding customers' needs, communication strategies, how to develop and deliver training, manufacturing safety, personal protective equipment, fire and electrical safety, blueprint reading, basic measurement, precision tools, quality systems, corrective action process, and verification processes. English language arts are reinforced.

Agriculture & Horticulture Pathway

AGRISCIENCE APPLICATIONS - AU102X0 1 CREDIT

Prerequisite: None

This course focuses on integrating biological/physical sciences with technology as related to the environment, natural resources, food production, science, and agribusiness. Topics of instruction include agricultural awareness and literacy, employability skills and introduction to all aspects of the total agricultural industry. English language arts, mathematics, and science are reinforced.

HORTICULTURE 1 - AP412X0 1 CREDIT

Prerequisite: None

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, and career opportunities. English language arts, mathematics, and science are reinforced.

HORTICULTURE 1 HONORS - AP415X0 1 CREDIT

Prerequisite: None

In addition to the standard course requirements, Horticulture I, this honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

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Food & Processing Systems Pathway

PRINCIPLES OF FAMILY AND HUMAN SERVICES - FC112X0 1 CREDIT

Prerequisite: None

Students learn life literacy skills and individual, family, and community systems in the context of the human services field. Emphasis is placed on human development, professional skills, diversity, analyzing community issues, and life management. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing. English/language arts, social studies, mathematics, science, technology, and interpersonal relationships are reinforced.

FOOD AND NUTRITION 1 - FN412X0 1 CREDIT

Prerequisite: FC11 Principles of Family and Human Services recommended

This course examines the nutritional needs of the individual. Emphasis is placed on the fundamentals of food production, kitchen and meal management, food groups and their preparation, and time and resource management. English language arts, mathematics, science, and social studies are reinforced.

General Management Pathway

MICROSOFT WORD & POWERPOINT - BM102X0 1 CREDIT

Prerequisite: None

Students in the Microsoft Imagine Academy benefit from world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. In the first part, students will learn to use the current version of Microsoft Word interface, commands, and features to create, enhance, customize, and share complex documents, and publish them. In the second part, students will learn to use the current version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize, and deliver presentations. Art and English language arts are reinforced.

MICROSOFT WORD & POWERPOINT HONORS - BM105X0 1 CREDIT

Prerequisite: None

In addition to the standard course requirements for Microsoft Word & PowerPoint, this honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take the Microsoft Office Specialist (MOS) certification exams for Microsoft Word and Microsoft PowerPoint.

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General Management Pathway cont.

BUSINESS MANAGEMENT 1 - BB402X0 1 CREDIT

Prerequisite: BF10 Principles of Business and Finance

This course is designed to introduce students to core management concepts. The experience includes how managers plan, organize, staff, and direct the business's resources that enhance the effectiveness of the decision-making process. Also, the experience includes students working through ethical dilemmas and problem-solving situations with customer service while academic and critical-thinking skills. English language arts is reinforced.

Health Science Pathway

FOUNDATIONS OF HEALTH SCIENCE - HU102X0 1 CREDIT

Prerequisite: None

This course is designed to assist potential health care workers in their role and function as health team members. Topics include medical terminology, the history of health care, healthcare agencies, ethics, legal responsibilities, health careers, holistic health, health care trends, cultural awareness, communication, medical math, leadership, and career decision making. English language arts are reinforced.

HEALTH SCIENCE 1 - HU402X0 1 CREDIT

Prerequisite: Biology is recommended as preparation for this course.

This course focuses on human anatomy, physiology and human body diseases and disorders, and biomedical therapies. Students will learn about health care careers within the context of human body systems. Projects, teamwork, and demonstrations serve as instructional strategies that reinforce the curriculum content. English language arts and science are reinforced in this course.

HEALTH SCIENCE 1 HONORS - HU405X0 1 CREDIT

Prerequisite: Biology is recommended as preparation for this course.

In addition to the standard course requirements of Health Science I, this honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be extended to take and pass the appropriate industry certification exam associated with the course, if available.

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Interior Design Pathway

PRINCIPLES OF FAMILY AND HUMAN SERVICES - FC112X0 1 CREDIT

Prerequisite: None

Students learn life literacy skills and individual, family, and community systems in the context of the human services field. Emphasis is placed on human development, professional skills, diversity, analyzing community issues, and life management. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing. English/language arts, social studies, mathematics, science, technology, and interpersonal relationships are reinforced.

INTERIOR DESIGN 1 - FI512X0 1 CREDIT

Prerequisite: None

This course engages students in exploring various interior design professions, while building the content knowledge and technical skills necessary to provide a foundational knowledge of the design industry. Emphasis is placed on the design thinking and utilization of the interior design process; human, environmental and behavioral factors; color theory, elements and principles of design; hand sketching/digital design techniques, space planning, selection of products and materials for residential interiors; client relationship building and design communication techniques. English language arts, mathematics, science, art, and technology are reinforced.

Logistics Pathway

MICROSOFT EXCEL HONORS - BM205X0 1 CREDIT

Prerequisite: None

Students in Microsoft Imagine Academy benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. This class is designed to prepare students for successful completion of the Microsoft Office Specialist Excel Core and Excel Expert exams.

Successful candidates for the Microsoft Office Specialist Excel certification exam will have a fundamental understanding of the Excel environment and the ability to complete tasks independently. They will know and demonstrate the correct application of the principle features of Excel. Candidates create and edit a workbook with multiple sheets and use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs. Expert-level candidates for the Excel exam have an advanced understanding of the Excel environment and have the ability to guide others to the proper use of the program's features. They create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Career possibilities may include accountants, financial analysts, data analysts, commercial bankers, and others.

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Logistics Pathway cont.

Logistics 1 - IK362X0 1 CREDIT

Logistics 1 Honors - IK365X0 1 CREDIT

Students will be introduced to worldwide and local logistics with an emphasis on warehouse and materials movement. Topics include personal safety; picking, packing, and loading of material; and warehouse storage. Intermodal transportation techniques and business practices are an integral part of this course. Students will gain a knowledge base of global logistics in addition to enhancing employability and communication skills within a professional environment.

Marketing Pathway

PRINCIPLES OF BUSINESS AND FINANCE - BF102X0 1 CREDIT

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

MARKETING - MM512X0 1 CREDIT

Prerequisite: None

This course is designed to introduce students to the dynamic processes and activities in marketing. The experience includes students developing an understanding and skills in the areas of distribution, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Also students develop an understanding of marketing functions applications and impact on business operations. English language arts, mathematics, and social studies are reinforced.

Drafting Pathway

DRAFTING 1 - IC612X0 1 CREDIT

Prerequisite: None

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas, concepts and trends found in the areas of architecture, manufacturing, engineering, science, and mathematics, sketching and computer assisted design (CAD) skills and techniques. English language arts, mathematics, and science are reinforced.