



IDCCRA Pathways Catalog

2015-16

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Introductory Career Explorations

CAR010 Business and Healthcare Explorations: In this course students explore basic concepts in the broad areas of business and healthcare, as well as career options in each area. Business: How do business ideas become businesses? How are products marketed? How do you know if a business is making or losing money? These are among the questions that students explore in the business portion of this course. In addition to studying concepts of entrepreneurship, accounting and marketing, students explore these concepts on scales that range from a single person to nations. Healthcare: Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases.

CAR020 IT and Manufacturing Explorations: This first half of the course provides a comprehensive introduction to the essentials of Web design, from planning page layouts to publishing a complete site to the Web. Students learn how to use HTML to design their own Web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools. The second half of the course has an introduction to engineering, computer-aided drafting using SpectraCAD, and introduction to advanced manufacturing.

Primary Cluster®: Information Technology

Other Related Cluster®: Arts, A/A Technology and Communications

Primary Pathway®: Web and Digital Communications,

Other Related Pathways®: Journalism and Broadcasting, Telecommunications

TCH042 Fundamentals of Design: This course discusses the theory of line, texture, color, form, balance, proportion, size, shape, mass, unity and variety. Spatial relationship and compositions in two and three dimensional space, two dimensional radii manipulation and form transition are also covered. Students will be introduced to graphic composition, layout and the use of grids in graphics composition.

TCH043 Elements of Design: This course is an overview of both typography and color theory. Students will learn the theoretical and applicable principles of letter forms and color theory basics. Topics include layout, grids, experiments in two-dimensional composition, the techniques of artwork, typography studies leading to the creation of new typefaces, in addition to typography as applied to commercial design. Color theory, color relationships, the psychology of color and the use of color in design will also be explored.

Cluster®: Health Science

Primary Pathway®: Diagnostic Services

Other Pathways®: Support Services, Therapeutic Services, Support Services

OTH094 Health Sciences 2: Patient Care and Medical Services: Students will learn the theoretical and applicable Health Science II is designed to further the student's understanding of the health care workplace, including patient and caregiver interactions and how various members of the health care team work together to create an ethical, functional and compassionate environment for patients.

CAR030 Medical Terminology: This course is an introduction to medical terminology and covers word roots, suffixes, and prefixes as it relates to various medical specialties, structures of the body, medical procedures and diseases. Students also receive practical experience in procedures performed in medical specialty facilities.

Cluster®: Business Management and Administration

Primary Pathway®: General Management

Other Pathways®: Administrative Support, Business Information Management

BUS040 Introduction to Entrepreneurship 1: In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business

BUS060 Introduction to Marketing 1: Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

Cluster®: Manufacturing

Primary Pathway®: Manufacturing Production Process Development

Other Pathways®: Production, Maintenance, Installation and Repair

MFG211 Simple Machines and Robotics*: This course will provide the student with knowledge and experience in programming a linear robot for use in a plastics manufacturing environment. The course seeks to relate the robot control parameters to their effects on the automation components and ultimately to the efficiency of the process. The student will program the robot for injection molding production runs. Added emphasis will be placed on primary troubleshooting and process optimization.

MFG212 Fundamentals of Milling and Pneumatics*: A basic machine process course. The fundamental operations on machine tool equipment including engine lathe, band saw, and horizontal and vertical milling machine. Measuring and inspection tools, drill press, and surface plate.

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