OAKTON DUAL CREDIT COURSES					
MAINE WEST					
OAKTON COURSE	COURSE NAME	SEMESTER HOUR OF CREDIT	COURSE DESCRIPTION		
ART 115	Beginning Photography	3	Course explains basic photography. Student, using their own cameras, explore basics of film exposure, development and printing. Focus is on realizing camera's ability to record fine delineation of tone and detail using black and white materials. Content includes use of studio cameras, studio lighting, brief history and basic aesthetics of photography.		
ATA 102	Intro to Automotive Technology	4	Course introduces field of automotive technology. Topics include history of transportation, service shop organization, vehicle maintenance and lubricating services. Focus is on job and shop safety.		
BIO 114	Basic Human Anatomy & Physiology	3	Non-laboratory survey course covers the structure and function of each body system.  Content includes body planes, directional terms, quadrants, body cavities, and the major organs in each body system.		
BNA 100	Basic Nursing Assistant Training	7	Course offers a basic study of principles and procedures used by the nurse assistant in long term care, home health settings and hospitals. Content focus is on basic human needs and care of the elderly. Integration of skills and concepts is acquired through hands-on clinical experience at local health care facilities. This course is approved by the Illinois Department of Public Health (IDPH). Upon completion, students may apply to take the Illinois Nurse Assistant/Home Health Aide Competency Exam. Prerequisite: Successful completion of course admission procedures		
BNA 105	Basic Nurse Assistant Job Training	1	Course expands understanding of today's health care workplace and the role of the CNA. Content focus is on gaining gain the job search techniques necessary to obtain employment in the health care field, e.g., hospitals, long term care and home health. Intended for those currently enrolled in BNA 100 Prerequisite: Concurrent enrollment in BNA 100		
CAD 105	Industrial Design Engineering	4	Course introduces industrial design, and its place in the manufacturing process. Content includes design visualization, creation, and application of 3-D computer-generated models in today's manufacturing, communication, and publishing industries; creating a 3-D computer model component design from original idea, pencil sketching, and concept analysis, to use of surface and solid modeling software; use of Boolean operations in model construction and editing, display commands, detailing, geometric translation, rendering and presentation.		
CAD 116	Basic AutoCAD	3	Course is first of three in drafting and design using AutoCAD software. Content includes setting up a drawing electronically; drawing and editing; construction techniques; display commands; effective layering; dimensioning and detailing; using blocks, and plotting.		
CAD 220	CAD Introduction to Building Systems- Revit	4	Revit enables students to create full 3D architectural project models and place them in working drawings. Class focuses on the basic tools that the majority of users will need to work with. Topics include creating floor plans, adding views, adding various building components, and creating sheets for plotting.		
CNS 105	Networking Essentials	3	Course introduces the technologies, terminology, and skills used in the world of data networking. Emphasis is on practical applications of networking and computer technology to real-world problems. Students gain the knowledge necessary to design and install a local area network. Topics include network hardware and software requirements, and network architecture.		
CNS 170	Principles of Information Security	3	Course presents balance between security management and technical components of security. Focus is on Security Systems Development Life Cycle (SecSDLC). Topics include structured methodology as supportive framework to guide students through examination of components of information domain of Information Security Network; preparation for appropriate Network or Information Security Certification examinations. Prerequisite: CNS 105 or consent of instructor, coordinator or program chair		
EAS 101	Physical Geology	4	Course introduces earth materials and the physical and chemical processes that sculpt earth's surface. Content includes rocks, minerals, earthquakes, volcanoes, glaciers, groundwater, coastal processes, geologic time, structural geology, and topographic maps.  IAI General Education: P1 907L		

EGL 101	Composition I	3	Course introduces strategies for planning, writing, and revising expository essays based on experience and reading. Content includes purpose, context, genre, and the rhetorical situation as elements in the writing process, as well as critical reading and analysis as the basis for essay writing. The first course in a two-course sequence with EGL 102. IAI General Education: C1 900
EGL 102	Composition II	3	Course introduces strategies for planning, writing, and revising advanced expository essays and the college research paper. Content includes critical reading and analysis, the structure of argument, and the use of sources. Prerequisite: EGL 101 with a minimum grade of C.  IAI General Education: C1 901R
HIT 104	Medical Terminology	3	Course presents medical terminology through study of medical word roots, prefixes and suffixes. Focus on relationships among symptomatic, disease, and procedural terms.
MFG 102	Industrial Drafting & Design	3	The course provides a thorough understanding of industrial drafting and design. It starts with outline of main differences between 2D and 3D design techniques. Main content covers examining the three major components of manufacturing drawings: geometry, dimensions, and drawing annotations required to machine a part or build an assembly according to the specifications. Additional topics include differences between metric (first angle) and standard (third angle) projections and dimensioning; interpreting advanced drawing views, and analyzing detail and assembly drawings. The course concludes with introduction to Geometric Dimensioning and Tolerancing (GD&T). Introduction to three-dimensional Computer Aided Design (CAD) software is integrated throughout the course.
MFG 111	Introduction to Computer Integrated Manufacturing (CIM)	3	Course introduces students to the concepts of Computer Integrated Manufacturing (CIM) systems used to automate manufacturing processes. The course starts with outline of main differences between hard and flexible automation. Main content provides introduction to basic electricity, electric motor types, hydraulics and pneumatics used for motion control, sensors and vision systems, industrial robotics, and programmable controllers.  The course concludes with students composing an advanced manufacturing CIM cell.
MGT 160	Small Business Management	3	Course presents the principles and problems of organizing a small business. Content includes an analysis of entrepreneurial qualifications and skills; capital resources and requirements; forms of ownership; and financial analysis and planning. Focus is on tax and legal considerations, staffing and learning to identify profit opportunities using market analysis; bringing products to market through effective advertising, personal selling and distribution methods and practices. Includes franchises, availability of government assistance through the Small Business Administration (SBA), evaluation of an existing business for purchase and special opportunities granted to small businesses in selling to government agencies.