

INFORMATION TECHNOLOGY CLUSTER

# INFORMATION TECHNOLOGY

## PROGRAM OF STUDY

COURSE	COURSE TITLE	PREREQUISITE	CREDITS	HIGH SCHOOL YEAR
INFO-1100	Microcomputer Applications*	NONE	3/6*	Sophomore
INFO-1220	Intro to Information Technology	NONE	3	Junior/Senior
INFO-1200	Intro to Computer Science**	Algebra II	4	Senior
INFO-1250	HTML	NONE	3	Junior/Senior
INFO-1260	JAVA Scripting	NONE	3	Senior
INFO-1275	Web Design	NONE	3	Junior/Senior
INFO-1400	Networking Essentials	NONE	3	Junior/Senior
INFO-2236	Web Graphics	NONE	3	Senior
<b>TOTAL CREDIT HOURS</b>			<b>25/28*</b>	

\*If the high school has articulated Microcomputer Applications with WNCC, students may take Advanced Microcomputer Applications and earn SIX (6) credit hours upon successful completion of course. Advanced Microcomputer Applications is REQUIRED for the Information Technology AOS degree.

\*\* Required for programmer skill award

### Dual credit courses



### This sequence of courses is part of the following Programs of Study:

- Information Technology, Certificate
- Information Technology, Diploma
- Information Technology, AOS

### If you follow the pathway sequence of courses, you may finish the programs in the following amounts of time beyond high school:

- Information Technology, Certificate: 1 semester
- Information Technology, Diploma: 2 semesters
- Information Technology, AOS: 3 semesters

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## COURSE DESCRIPTIONS

**INFO-1100 Microcomputer Applications** This course focuses on the fundamentals of word processing, spreadsheets and presentation graphics in a windows-based environment and includes the integration of these applications. Keyboarding skills are recommended. Keyboarding skills are recommended. Also offered online.

**INFO-1200 Introduction to Computer Science** This course is a study of computer programming and accepted programming practices using a high level programming language. Emphasis will be placed on top down stepwise refinement and algorithm development. An introduction to operating systems, object oriented design and data abstraction is given. Keyboarding skills are recommended.

**INFO-1220 Introduction to Information Technology** This is an introductory course designed to impart an understanding of electronic information processing to the student. No previous experience is required. The course attempts to clarify the concepts, mechanics, new developments, social evolution and future implications of electronic information processing. Keyboarding skills are recommended. Also offered online.

**INFO-1250 HTML** This course provides the student with enough knowledge to create simple web pages for publication of a web site on the Internet. Primary emphasis is on HTML; the basic elements, links, graphics, tables, frames, forms and style sheets. Keyboarding skills and Intro to Online Learning or previous online course are recommended. Also offered online.

**INFO-1260 JAVAScripting** In this course, the student will take an in depth look at programming concepts and techniques that will enhance Web page design. The student will examine theoretical concepts that make the world of JavaScript programming unique. Also, this course will adopt a practical hands-on approach when examining programming styles. Along with examining different coding, this course will explore the advancement of programming, as well as, timeless problem solving strategies. Keyboarding skills are recommended. Also offered online.

**INFO-1275 Web Design (Dreamweaver)** This course is designed for the Information Technology major. It teaches the student how to design, build and maintain web pages/sites using code-generating software for publication on the Internet. The student should already understand basic HTML elements such as: text formatting, links, graphics, tables, forms and frames. Keyboarding skills are recommended.

**INFO-1400 Networking Essentials** This course teaches students, through lectures, discussions, scenarios, demonstrations, chapter review questions, textbook exercises and classroom activities, the skills and knowledge necessary to configure, manage and troubleshoot computers in a network environment. This course was developed for students who want to learn how to support, administer, or implement

computer networks. Some of these students might also be interested in taking the Comp TIA Network+ certification exam. Keyboarding skills are recommended.

**INFO-2236 Web Graphics** This course provides the student with enough knowledge to create, import, edit, animate, add interactivity and optimize graphics for use with a Web site. Bitmap and vector editing features, slices, hot spots, links and buttons will be addressed. Primary emphasis is on the basic design elements, backgrounds, graphic size and quality, portability, interactivity and animation. Knowledge of HTML is recommended.

