



Information Technology Individual Graduation Plan

PROGRAMMING AND SOFTWARE DEVELOPMENT*



This career cluster plan of study is a source of information as you develop your own personal learning plan. This plan meets all Idaho high school graduation requirements as well as entrance requirements for Idaho postsecondary institutions within the IT Career Cluster.

Coursework					
Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Advanced Coursework for Postsecondary Credit
Language Arts <i>(9 credits)</i>	English 1A&1B	English 2A&2B	English 3A&3B	English 4A&4B Speech	APPACAD 111 Applied Communications APPACAD 221 Technical Report Writing
Mathematics <i>(6 credits)</i>	Algebra I A& IB OR Algebra II A&B OR Geometry A&B	Algebra II A&B OR Geometry A&B OR Pre-Calculus A&B	Algebra II A&B OR Pre-Calculus A&B OR Calculus IA & IB	Business and Consumer Math OR Calculus IA & IB OR Calculus IIA&IIB	APPACAD 139 Technical Math
Science <i>(6 credits)</i> <i>(1 credit Health)</i>	Earth Science	Biology Health	Physics AND Chemistry(Elective)	Chemistry(Elective)	
Social Studies <i>(5 credits)</i>		US History Comprehensive A&B	American Government A&B	<i>Consumer Economics & Seminar</i>	
Idaho Professional-Technical Education/Other Classes	<i>Tech Tools (TI0550)</i> <i>Computing and Internet Core (TI 0550)</i> <i>School to Work (OT 0100)</i>	TI0555 Design and Development OR <i>TI 0551, TI 0501 Hardware and Electronics</i> <i>OT0100 Includes Career Explor and Employ Prep</i>	TI 0557 PWD-Programming Fndmntls TI0558 PWD-Advanced Programming <i>TI0501, TI502 Electronics 1,2,3,4</i> <i>OT0100 Includes Career Explor and Employ Prep</i>	TI 0610 PWD-Software Applications TI 0611PWD-Projects in IT <i>OT 0100 Consumer Economics & Seminar</i> TI 9855 & OT0110, OT0120, OT0130, OT0140 Internship	CISW 111/113 HTML & Website Design and Management; CISW 213/217 Web Programming with PHP and Database Systems; WDM 177Principles of HTML & XML; CS 119 Introduction to Java; CISW 125 Intro to Programming with VB
Additional Requirements	Spanish 1A&2B Fitness Tutorial Citizenship & Professionalism	Spanish 2A&2B Citizenship & Professionalism	Spanish 3A&3B OR World Perspectives & Business and Human Relations Citizenship & Professionalism	Senior Project Citizenship & Professionalism	BUSTECH 161 Intro to Microcomputers OR CISA 102 Introduction to IT Fundamentals OR BI 170 Intro to Computers
Extended Learning					
School-Based	SkillsUSA Service Learning Projects				
Community-Based	Website Development/Maintenance for Community Organization One Laptop per Child Program Short-term Business Projects	At least 5 hours of community service required each year At least 2 Industry Field Trips Part-Time Employment			Volunteer Industry Job Shadow

Italic lettering indicates class competencies are met through more than one class at MTCHS.

PROGRAMMING AND SOFTWARE DEVELOPMENT* PAGE 2

■ Technical Coursework

This does not include all classes required for certificates or degrees. See college web sites for more information and coursework is subject to change.

Major	Year 13	Year 14	Year 15	Year 16	Occupations Relating to This Pathway
Option 1 Associate Degree Web Development College of Southern Idaho	CISA 102 Intro to IT Fundamentals* CISS 107 Operating Systems CISW 111 HTML* CISW 113 Website Design and Management* CISS 116 Network Technologies CISS 107 DHTML* CISW 123 Ecommerce CISW 125 Intro to Programming with VB* CISW 127 System Analysis & Design	CISW 213 Web Programming with PHP* CISW 217 Database Systems* CISS 236 Linux/Unix CISG 204 Copy Editing CISW 225 Web Programming with ASP* CISW 227 XML* CISW 298 Comprehensive IT Project			Applications Analyst Applications Engineer Business Analyst Computer Engineer Computer Scientist Data Systems Designer Database Administrator Database Analyst Data Modeler Game Developer Operating System Designer/Engineer Program Manager Programmer Programmer Analyst Project Lead Software Applications Specialist Software Applications Tester Software Design Engineer Systems Administrator Systems Analyst Test Engineer Tester Web Developer Web Master
Option 2 Bachelor Degree Computer Science Boise State University	COMPSCI 119* Intro to Java COMPSCI 125 Intro to CS	COMPSCI 225 Intro to CS II COMPSCI 230 Ethical Issues in Computing COMPSCI 242 Data Structures and Algorithms COMPSCI 253 OOP in C	See College Website	See College Website	
Option 3 Bachelor Degree Information Technology Management –Developer Option Boise State University	ITM 104, 105, 106 Spreadsheet, Database, Word Processing, OS OR Exam* ITM 225 Introduction to Programming ITM305IT and Network Essentials	ITM 310 Business Intelligence ITM 315 Database Systems ITM 320 Systems Planning and Analysis ITM 325 Web Application Development	See College Website	See College Website	

*Classes available as Dual Credit or Tech Prep at Meridian Technical Charter High School