

## Career Pathway\* for IT: Programming & Software Development

GRADE 9	GRADE 10	GRADE 11	GRADE 12
Core 40 Courses	Core 40 Courses	Core 40 Courses	Core 40 Courses
English 9 Algebra I Biology Physical Education Health / Computer ***	English 10 Geometry Chemistry or Physics World History <b>Career Academic Sequence</b> (chosen from below)	English 11 Algebra II Additional Science US History <b>Career Academic Sequence</b> (chosen from below)	English 12 Govt /Econ <b>Career Academic Sequence</b> (chosen from below)
Core 40 with Academic Honors	Core 40 with Academic Honors	Core 40 with Academic Honors	Core 40 with Academic Honors
World Language I	World Language II	World Language III	Additional Math Additional Science Fine Arts ****
Electives Chosen From Below	Electives Chosen From Below	Electives Chosen From Below	Electives Chosen From Below

### RECOMMENDED COURSES FOR THE "CAREER ACADEMIC SEQUENCE" AND ELECTIVES

Highly Recommended One-Credit Courses	Highly Recommended Multi-Credit Career/Technical Courses	Other Recommended Courses and Experiences
Computer Applications, Advanced Computer Programming** Information Technology: Programming and Software Development** (4 credits over 2 years)  <i>Computer Applications and Digital Communication Tools OR the Business Middle School standards are prerequisites for the Information Technology: Programming and Software Development Career Pathway.</i>	Business Cooperative Experiences** OR Professional Career Internship**	<i>Business</i> Career Planning and Success Skills Accounting I Business Management Technical Business Communication  <i>Math</i> Probability and Statistics Discrete Math  <i>Technology Education:</i> Computers in Design and Production Systems

\* Schools may choose to recommend that courses be taken in different years than indicated in this career pathway.

\*\* Strongly recommended course for this career pathway

\*\*\* The computer course is required for students working toward the Indiana Minimum Diploma but is expected for All BMIT Pathways.

\*\*\*\* The fourth year of world language may be taken as an elective

Occupations Related to this Pathway	Level of Education Required						
	High School	On-the-Job Training	Apprenticeship Program	Proprietary School (Postsecondary Career School)	Community College	4-yr College	Advanced College Degree
Operating Systems Specialist		X		X	X		
Programmer		X				X	
Software Application Support		X		X	X		
Software Architect		X				X	
Software Quality Assurance Specialist		X		X	X		
Systems Analyst		X				X	
Systems Project Manager		X			X	X	