

**Options include: Health Informatics, Application Development, and Business/Systems Analyst**  
**Lower-Division courses required for all three options:**

OIT Courses	Credits	PCC Equivalent Courses	Credits
WR 121 & 122 English Composition	6	<b>WR</b> 121 & 122 English Composition	8
WR 227 Technical Writing	3	<b>WR</b> 227 Technical Writing	4
SPE 111 Fundamentals of Speech	3	<b>SP</b> 111 Public Speaking	4
SPE 321 Small Group & Team Comm.	3	<b>SP</b> 215 Small Group Communication	4
MTH 111 College Algebra	4	<b>MTH</b> 111 College Algebra	5
MTH 361 Statistical Methods	4	<b>MTH</b> 244 Statistics II	4
ECO 201 Prin. of Econ., Macroeconomics	3	<b>EC</b> 201 Prin. of Economics, Microeconomics	4
ECO 202 Prin. of Econ., Microeconomics	3	<b>EC</b> 202 Prin. of Economics, Macroeconomics	4
PSY 201 Psychology	3	<b>PSY</b> 201 (A) Intro. to Psychology, Part I	4
ACC 201 Principles of Accounting	4	<b>BA</b> 211 Principles of Accounting I	3
ACC 203 Principles of Managerial Acct.	4	<b>BA</b> 213 Principles of Accounting III	3
BUS 223 Principles of Marketing (AD & B/S A)		<b>BA</b> 223 Principles of Marketing	3
BUS 337 Health Care Marketing (HI)			
MIS 275 Intro. to Relational Databases	3	<b>CIS</b> 275 Data Modeling and SQL Introduction	4
MIS 115 Visual BASIC Programming	4	<b>CIS</b> 133B Intro. to Visual Basic. NET <b>or</b> <b>CIS</b> 133J Java Programming I	4
MIS 256 Hardware/Software Integration	4	<b>CIS</b> 145 Microcomputer Hardware	4
MIS 272 Introduction to Networking	4	<b>CIS</b> 278 Data Communication Concepts II	4
MIS 102 Comp. Spreadsheet Software Lab	1	<b>CAS</b> 171 Intermediate Excel	3
Math/Science/Social Science Elective	12	Math/Science/Social Science Elective	12
Humanities Elective	9	Humanities Elective	9-12

**Additional courses for Health Informatics Option:**

BIO 103 General Biology	4	<b>BI</b> 121 Intro to Anatomy and Physiology	4
BIO 200 Medical Terminology	2	<b>MP</b> 109 or 111 Medical Terminology	2-4
BUS 316 Total Quality in Health Care	3	<b>HIM</b> 271 Quality Improvement in Healthcare and <b>HIM</b> 274 Quality Improvement in Healthcare lab	3 1
BUS 317 Health Care Management	3	<b>HIM</b> 272 Health Information Management <b>or</b> <b>BA</b> 206 Management Fundamentals	3
MIS 217 Health Care Systems and Policy	3	<b>HIM</b> 182 Health Care Delivery Systems and <b>HIM</b> 283 Health Information Systems	6
Math/Science/Social Science Elective	3	Math/Science/Social Science Elective	4

**Additional courses for Application Development Option & Business/Systems Analyst Option:**

MTH 327 Discrete Math	4	<b>MTH</b> 231 Elements of Discrete Math	4
BUS 215 Principles of Management	3	<b>BA</b> 206 Management Fundamentals	3
BUS 226 Business Law	3	<b>BA</b> 226 Business Law	3
CST 116 C++ Programming I	4	<b>CS</b> 161 Computer Science I	4
MIS 225 Business on the Internet	3	<b>CIS</b> 243 Essentials of E-Commerce	4
Lab Science Elective	4	Lab Science Elective	4
Math/Science Elective	4	Math/Science Elective	4

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**Information Technology**  
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**Michael Kirshner 503-821-1249 (Health Informatics)**

**Grant Kirby 503-821-1273 (Applications Development and Business/Systems Analyst)**

### **Health Informatics Option**

Health Informatics is the rapidly developing scientific field that utilizes computer technology in the advancement of health care. As an applied science Health Informatics sits at the junction of computer technologies, information science, clinical practice and business management. It is the study of how health data are collected, stored and communicated; how those data are processed into health information suitable for administrative and clinical decision making; and how computer and telecommunications technology can be applied to support these processes. Students learn to identify what information and data are needed by doctors, nurses, hospital administrators, consumers, patients, government planners and other health care professionals and how they are used in order to make effective health care decisions. Graduates from a degree program in health informatics work in a variety of environments. These include hospitals, medical research laboratories, health insurance companies, Internet companies, health information technology suppliers, or consulting organizations. Within each of these environments lie opportunities as database administrators, project managers, project designers, researchers, or systems analysts.

### **Application Development Option**

The Information Technology Applications Development Option focuses on the acquisition of theory and technical competencies to prepare student for successful careers as applications programmers. The curriculum is designed to produce graduates with the competencies, skills and attitudes necessary for success in the workplace or further graduate education. The management components include analytical skills and problem solving; business organization and management; project management; leadership, teams, and communications. Information technology skill areas include database development, applications development, web development, technical support, telecommunications, and additional technical electives.

### **Business/Systems Analyst Option**

The Information Technology Business/Systems Analyst Option integrates technical, business, and interpersonal skills to prepare students for successful careers as business/systems analysts. The curriculum is designed to produce graduates with the competencies, skills and attitudes necessary for success in the workplace or further graduate education. The management components include analytical skills and problem solving; business organization and management; project management; leadership, teams, and communications. Students gain theoretical and practical experience with systems analysis and design, project management, personal computers, operating systems, applications, networks, web page design and development, and databases.

Meet with a PCC, CIS Advisor to develop an effective transfer plan that will meet your individual needs.
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*PCC endeavors to create accurate transfer guides for students; however, requirements may change without notice. Students are responsible for working with PCC advisors and their transfer institution to ensure that their academic plan will meet requirements and timelines.*