

Computer Information Systems–Health Informatics Program

healthinformatics.chemeketa.edu

Health Informatics is an emerging field that combines the disciplines of computer Information systems and health services management. The program offers an Associate in Applied Science degree that prepares students to coordinate the computer information systems used in hospitals and medical clinics through a curriculum that covers health data collection, storage and communication, and data processing to be used for the support of administrative and clinical decision-making, and the computer and telecommunications technology applied to these processes. As a statewide cooperative effort among several Oregon community colleges, this program is transferable to the following participating schools: Lane Community College, Linn-Benton Community College, Portland Community College, Southwestern Oregon Community College, and Umpqua Community College. Consult with Counseling and Career Services or a Chemeketa advisor on course transferability. Total required credit may vary due to three to four credit conversion. Chemeketa degree and certificate minimum requirements must be met.

Program Outcomes

Students completing the Computer Information Systems– Health Informatics AAS will:

- Develop, implement, and evaluate a health information management system.
- Manage the acquisition, storage, retrieval and use of health information.
- Apply operational health care knowledge to address health informatics system needs.
- Create and query databases and user interfaces using advanced SQL concepts.
- Select appropriate technology tools by recognizing tool capabilities and limitations.
- Work effectively alone or as part of a team.
- Communicate orally and in written form explain concepts, components and processes.
- Plan, manage and control costs of a health care system.
- Identify and evaluate local and wide area network requirements for a health care organization.
- Install, manage and troubleshoot issues in a network environment.
- Specify, purchase and assemble hardware and software for a local area network.
- Communicate effectively with vendors and users.
- Define systems requirements for projects; use project management software and practices, apply accounting principles to increase profitability and decrease costs.

Getting started

The first step to entering this program is to take part in an assessment process, which includes taking the college's free placement test. The second step is to discuss your scores with the Counseling and Career Services staff. Next, see a Health Informatics program advisor. If your scores show you need preprogram classes, your advisor will help you determine if you need one or more of the following:

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| CIS101 Introduction to Microcomputer Applications | 3 |
| MTH095 Intermediate Algebra+ | 4 |
| RD115 Academic Reading and Thinking | 3 |
| WR115 Introduction to Composition | 4 |

If you have questions about the requirements contact Health Informatics faculty James Finholt at 503.589.7813 or Cheryl Davis at 503.399.2669. Failure to be assessed may delay your entry into the program.

In addition to tuition, estimated costs for students who complete the entire AAS degree listed below are books, \$3,950; class fees, \$700; universal fee, \$808; equipment and supplies, \$400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an Associate of Applied Science degree by successfully completing the required 105 credit hours.

| Course Title | Credit Hours |
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| Term 1 | |
| BA211 Financial Accounting 1 | 4 |
| CIS120 Digital Literacy | 4 |
| CIS133SC Fundamentals of Scripting Languages | 4 |

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| or | |
| CIS133J Fundamentals of Java Programming | 4 |
| HM120 Medical Terminology 1 | 3 |
| WR121 English Composition–Exposition+ | 4 |
| Term 2 | |
| CIS121 Introduction to Programming Concepts | 4 |
| CIS125A Micro Database Software–Access | 3 |
| CIS140B Microcomputer Operating Systems | 3 |
| HM112 Health Info Systems and Procedures 2 | 4 |
| HM121 Medical Terminology 2 | 3 |
| Term 3 | |
| BA224 Human Resource Management | 4 |
| CIS140U UNIX/LINUX | 3 |
| CIS179 Introduction to Client-Server Networks | 4 |
| PSY201 Introduction to Psychology–Mind and Body+..... | 4 |
| Term 4 | |
| BA214 Business Communications | 3 |
| or | |
| WR122 English Composition–Argumentation and Research | 4 |
| CIS276A Introduction to Oracle: SQL | 4 |
| CS275 Database Management | 4 |
| HM210 Introduction to Health Services | 3 |
| HM250 Health Services Management 1 | 3 |
| Term 5 | |
| CIS145 Microcomputer Hardware | 4 |
| CIS276B Oracle Program with PL/SQL | 4 |
| CIS278 Data Communications | 4 |
| HM251 Health Services Management 2 | 3 |
| SP111 Fundamentals of Public Speaking | 4 |
| Term 6 | |
| CIS244 Systems Analysis 1 | 3 |
| CIS276C Oracle Reports Developer/Bldg Reports | 4 |
| CIS279 Network Management | 5 |
| CIS280C Cooperative Work Experience | 3 |
| HM252 Health Services Management 3 | 3 |