

**Information Systems**  
**Bachelor of Science**  
**2025-2026**

**General Areas of Service:** Information Systems is the discipline that focuses on integrating information technology solutions and business processes to meet the information needs of businesses and other enterprises, enabling them to achieve their objectives in an effective, efficient way.

**Professional Training:** A bachelor's degree is the minimum requirement for most jobs, though a master's degree is desirable for many positions. Prior work experience (internship) is also important for gaining employment in this field. A master's degree is useful for a career as a chief information officer (CIO).

**Job Outlook:** The U.S. Bureau of Labor Statistics (BLS) reports that "computer and information systems managers is projected to grow 17 percent from 2023 to 2033. About 54,700 openings for computer and information systems managers are projected each year, on average, over the decade." These occupations are expected to add new jobs due to a greater emphasis on cloud computing, the collection and storage of big data, more everyday items becoming connected to the Internet in what is commonly referred to as the "Internet of things," and the continued demand for mobile computing. (See [www.bls.gov](http://www.bls.gov)) Workers with specialized technical knowledge and strong communication and business skills, as well as those with a master's degree in information systems, will have the best prospects.

**Earnings:** As of May 2024, the U.S. Bureau of Labor Statistics reports the median annual wage for computer and information system managers was \$171,200 and \$120,520 for computer network architects. (See [www.bls.gov](http://www.bls.gov))

**Note:** Senior Students are required to take a comprehensive departmental exam.

**COMPUTER SCIENCE  
DEPARTMENT**

Kretschmar Hall  
(509) 527-2751

**SCHOOL OF BUSINESS**

Bowers Hall  
(509) 527-2951

**Websites**

[Walla Walla University](#)  
[University Bulletin](#)

[Computer Science Department](#)  
[School of Business](#)

**Faculty**

Advisors

[Preston Carman](#) (Computer Sci.)  
[Bruce Toews](#) (Business)

**Professional Organizations**

[Association for Computing Machinery](#)

[Association of Information Technology Professionals](#)

**Additional Organizations**

[U.S. Bureau of Labor Statistics](#)  
[Computer & Information Technology Occupations](#)

## Suggested Degree Path

TOTAL CREDITS REQUIRED: 192 cr. GENERAL STUDIES REQUIREMENTS: 64-69cr. [See the Undergraduate Bulletin for Details](#)

The chart below details one suggested path a student may take to complete a bachelor's degree in Information Systems

*Cognates are listed in Italics.*

### Freshman Year

Fall Courses	Hours
Bus. Analytics with Excel ( <a href="#">CIS 140</a> )	4
Fund. of Programming I ( <a href="#">CPTR 141</a> )	4
General Studies History	4
General Studies Religion	4
<b>Total</b>	<b>16</b>

Winter Courses	Hours
Fund. of Programming II ( <a href="#">CPTR 142</a> )	4
Intro to Analytical Writing ( <a href="#">ENGL 121</a> )	3
<i>Pre-calculus I</i> ( <a href="#">MATH 121</a> )	4
General Studies Social Science	4
General Studies P.E. Activity	1
<b>Total</b>	<b>16</b>

Spring Courses	Hours
The Art and Practice of Computer Science ( <a href="#">CPTR 108</a> )	3
Intro to Research Writing ( <a href="#">ENGL 122</a> )	3
General Studies History	4
General Studies Religion	2
General Electives	4
<b>Total</b>	<b>16</b>

### Sophomore Year

Fall Courses	Hours
+ Web Application Dev. ( <a href="#">CPTR 220</a> ) or <a href="#">CYBS 122</a>	4
Principles of Financial Accounting ( <a href="#">ACCT 201</a> )	4
General Studies Science	4
General Electives	4
<b>Total</b>	<b>16</b>

Winter Courses	Hours
+ <i>Data Analysis</i> ( <a href="#">MATH 215</a> )	4
Research Writing ( <a href="#">ENGL 223</a> )	3
General Studies Religion	3
General Studies Science	4
General Electives	2
<b>Total</b>	<b>16</b>

Spring Courses	Hours
+ Linux & Windows Admin ( <a href="#">CIS 211</a> )	3
Prin. of Management ( <a href="#">MGMT 371</a> )	4
General Studies Communications	4
General Electives	5
<b>Total</b>	<b>16</b>

### Junior Year

Fall Courses	Hours
- Intro to Database Systems( <a href="#">CPTR 420</a> )	4
Internship & Career Readiness ( <a href="#">CPTR 396</a> )	1
General Studies Humanities	4
General Electives	7
<b>Total</b>	<b>16</b>

Winter Courses	Hours
Accounting Info Systems ( <a href="#">ACCT 341</a> )	4
Info. Sys & Bus. Intelligence ( <a href="#">CIS 301</a> )	4
General Studies Humanities	4
General Studies Religion	3
General Studies P.E. Activity	1
<b>Total</b>	<b>16</b>

Spring Courses	Hours
- Data Comm. & Networks ( <a href="#">CIS 210</a> )	3
Business Communication ( <a href="#">GBUS 270</a> )	4
*Business Elective/Internship ( <a href="#">CIS 490</a> )	0-4
Colloquium ( <a href="#">GBUS 495</a> )	0
General Electives	5-7
<b>Total</b>	<b>16</b>

### Senior Year

Fall Courses	Hours
+ Computer Security ( <a href="#">CPTR 440</a> )	4
Business Ethics ( <a href="#">MGMT 463</a> ) or <a href="#">CPTR 308</a>	4
Colloquium ( <a href="#">GBUS 495</a> )	0
General Studies Religion	3
General Electives	5
<b>Total</b>	<b>16</b>

Winter Courses	Hours
Operations Mgmt ( <a href="#">MGMT 366</a> )	4
Prin. of Project Mgmt ( <a href="#">MGMT 470</a> )	4
Colloquium ( <a href="#">GBUS 495</a> )	0
General Electives	8
<b>Total</b>	<b>16</b>

Spring Courses	Hours
Computer Science Elective	4
General Studies Humanities	4
General Studies Religion	3
General Electives	5
<b>Total</b>	<b>16</b>

+ Offered even years only

- Offered odd years only

\* Internships require 120 hours of documented work experience, regardless of the credits earned. Usually completed during the summer.

## Office of Academic Advisement

Canaday Technology Center, Room 311 • (800) 558-2132 • (509) 527-2132