# Computer Information Systems (Software Development Emphasis)

Contact for Computer Information Systems Department: 719-549-2142
https://www.colostate-pueblo.edu/computer-information-systems/index.html

This agreement identifies community college courses that will apply to the baccalaureate degree.

**If you plan to complete this bachelor's degree, recognize that:**
1. You should transfer into the bachelor's program after you take the courses outlined below. Transfer hours beyond the credits below are not guaranteed to apply toward the bachelor's degree.
2. It is imperative that you contact an advisor at the 4-year institution by the end of the first semester to clarify course work appropriate for this major and to identify the community college courses and GPA necessary to meet admission requirements to both the 4-year institution and the degree program.
3. This Transfer Guide does not supplant any other transfer agreement your Colorado community college may have with this 4-year institution.

**Transfer Recommendations:** To graduate in a 4 year overall time frame, it is important that students follow the recommended schedule below. Students who wish to continue their education at the community college beyond the number of credits specified below should explore with both 2-yr and 4-yr advisors how their graduation timeline, COF stipend, and financial aid will be affected.

**Guarantees and Limitations:** Students:
- are responsible for meeting all admission requirements at the 4-year institution;
- are not guaranteed admission to the bachelor's degree program at the 4-year institution;
- are guaranteed, once admitted, application of the transfer hours below to either lower division general education, course work required for the major, or elective credit;
- must consult with the 4-year institution's bachelor's degree program to utilize AP, IB, or CLEP credits;
- must consult with the 4-year institution's bachelor's degree program for transferability of course work credits beyond those prescribed below as additional courses are major specific and the 4-year institution may restrict the number of community college transfer credits.

**Please note that this curriculum neither fulfills the gtPathways general education curriculum nor the associate degree requirements at the community college.**

| Required General Education Courses Applicable to the Major    (36 credits) | | | | CSU-Pueblo Course & Credits |
|---|---|---|---|---|
| | **Credit Hours** | **Community College (CCCS) Course No.** | **Course Title and gtPathways Category** | |
| Written Communication | 6 | ENG 121<br>ENG 122 | English Composition I (GT-CO1)<br>English Composition II (GT-CO2) | ENG 101, 3 credits<br>ENG 102, 3 credits |
| Oral Communication | 3 | COM 115 | Public Speaking | COMR 103, 3 credits |
| Art & Humanities | 6 | | Any gtPathways Arts & Humanities course from one of the following AH categories: GT-AH1, GT-AH2, GT-AH3, or GT-AH4 | 6 credits |
| Social & Behavioral Science | 6 | ECO 201<br>ECO 202 | Principles of Macroeconomics<br>Principles of Microeconomics | ECON 201, 3 credits<br>ECON 202, 3 credits |
| History | 3 | | Any gtPathways Historical Perspectives courses from the GT-HI1 category | 3 credits |
| Mathematics | 4 | MAT 121 | College Algebra | MATH 121, 4 credits |

| Natural & Physical Sciences | 8 | | Two gtPathways Science courses (GT-SC1) | 8 credits |
|---|---|---|---|---|

| Additional Required Courses | | (24 credits) | | |
|---|---|---|---|---|
| Computer Information Systems | 3 | CIS 118 | Introduction to PC Applications | CIS 100, 1 credit |
| | | | | CIS 103, 1 credit |
| | | | | CIS 104, 1 credit |
| Computer Information Systems | 3 | CIS 115 | Introduction to Computer Information Systems | CIS 150, 3 credits |
| Computer Information Systems | 3 | CIS 268 | System Analysis & Design | CIS 240, 3 credits |
| Computer Science | 4 | CSC 160 | Computer Science I (JAVA) | CIS 171, 4 credits |
| Computer Science | 4 | CSC 161 | Computer Science II (JAVA) | CIS 271, 4 credits |
| Computer Networking Tech | 3 | CIS 289 | Local Area Networks | CIS 289, 3 credits |
| Math | 4 | MAT 125 | Survey of Calculus | MATH 220, 4 credits |

## Admission Requirements to the Institution and the College/School/Department

Students transferring from community college should refer to the published admissions standards at: www.csupueblo.edu

For additional information you may contact the Office of the Registrar at: 719-549-2261

**Transfer Disputes**
If disagreement regarding the transferability of credits for coursework or a degree occurs between a student and a receiving two-year or four-year institution, the Department will facilitate an expeditious review and resolution of the matter pursuant to Commission Policy, Section I, Part T: Student Complaint Policy. For more information, contact the Department at 303-866-2723 or file a complaint at http://highered.colorado.gov/Academics/Complaints/default.html

The chart shown below illustrates the remaining requirements to complete the BS in Computer Information Systems after transferring to CSU-Pueblo. 60 semester credits are the maximum amount of transfer credit allowed from two-year institutions. Therefore the credits shown below *MUST* be completed at CSU-Pueblo.

| Additional Major Core Course Requirements (20 credits) | | |
|---|---|---|
| CIS 105 | MS Access DBMS | 1 credit |
| CIS 185 | PC Architecture | 3 credits |
| CIS 311 | Introduction to Web Development | 3 credits |
| CIS 315 | Unix Operating System | 3 credits |
| CIS 350 | Data Base Systems | 3 credits |
| CIS 432 | Senior Professional Project | 6 credits |
| CIS 493 | Senior Seminar | 1 credit |
| **Software Development Emphasis Area Requirements (12 credits)** | | |
| CIS 356 | iOS Application Development | 3 credits |
| CIS 359 | Advanced Programming with C# | 3 credits |
| CIS 386 | Android Application Development | 3 credits |
| CIS 411 | Internet Server-Side Programming | 3 credits |
| **Additional Quantitative Analysis Requirements (6 credits)** | | |
| BUSAD 265 | Inferential Statistics and Problem Solving | 3 credits |
| BUSAD 360 | Advanced Business Statistics | 3 credits |

| Additional Related Courses (22 credits) | | |
|---|---|---|
| BUSAD 270 | Business Communications | 3 credits |
| MGMT 201 | Principles of Management | 3 credits |
| MGMT 368 | Project Management | 3 credits |
| Open Electives | Advisor Approved Open Elective | 7 credits |
| Open Electives | Upper Division Advisor Approved Open Electives | 6 credits |
| **Total Transfer Credit Applied Toward B.S. Degree** | | 60 |
| **Total Additional Credit Required for B.S. Degree** | | 60 |
| **Total B.S. Degree Requirements** | | 120 |