

CISC Major, 2009-2010 Cohort
 Program Checksheet & Sequencing Guidelines, cont.

Name: _____	ID: _____	Date filled out: _____
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Note: Major requirements are broken down by the year typically taken, with a section for those that have flexible timing. Major requirements for CISC vary, according to which concentration is completed:

- Information Systems Concentration: Totals **48 credits** (42 credits strictly for the major, plus 6 credits that overlap with GenEds)
- Software Development Concentration: Totals **51 credits** (45 credits strictly for the major, plus 6 credits that overlap with GenEds)
- Game programming Concentration: Totals **58 credits** (45 credits strictly for the major, plus 13 credits that overlap with GenEds)

Major Requirements -- typically taken during the FIRST YEAR:

Course code	Title	Cr	Sem/Yr	Grade	Note
CISC 105	Introduction to Computer Concepts	3			
CISC 115	Microcomputer Applications	3			
CISC 175	Introduction to Computer Science with C++ and Java	NA			Prerequisite: CISC 105 Record credits on GenEd page

In addition, take the MATH course appropriate for your concentration, or **MATH 115 or MATH 125** if you need to prepare for the higher level course.

For the Information Systems concentration:

MATH 131	Introduction to Calculus with Applications	NA			Prerequisite: MATH 125 or equivalent Record credits on GenEd page
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For the Software Development concentration or the Game Programming concentration:

MATH 140	Calculus I	NA			Prerequisite: MATH 125 or equivalent Record credits on GenEd page
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In addition, you should take the following **General Education requirements** your first year:

ENGL 113	College Writing I (Fall only)	GenEd requirements -- record on GenEd page
ENGL 114	College Writing II (Spring only)	
HLTH 100	Wellness: A Way of Life	

To complete your first-year schedule, select from:

- Major requirements from the flexible timing section, as appropriate (see page 4)
- General Education requirements (see page 1), and/or
- Allowable electives (see page 6)

To **total 30 credits for the year.**

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Major Requirements -- typically taken during the SECOND YEAR:

Course code	Title	Cr	Sem/Yr	Grade	Note
CISC 235	Computer Logic Design	3			Prerequisite: CISC 175
CISC 275	Data Structures Using C++	3			Prerequisite: CISC 175
CISC 315	Database Development and Management	3			Prerequisite: Instructor's permission If offered, take 2nd year

In addition, select:

- Major requirements from the flexible timing section, as appropriate
- General Education requirements, and/or
- Allowable electives

To **total 30 credits for the year.**

Major Requirements -- typically taken during the THIRD YEAR:

Course code	Title	Cr	Sem/Yr	Grade	Note
CISC 482	Computer Systems Seminar	3			Prerequisite: Instructor's permission

In addition, select:

- Major requirements from the flexible timing section, as appropriate
- General Education requirements, and/or
- Allowable electives

To **total 30 credits for the year.**

Major Requirements -- typically taken during the FOURTH YEAR:

Take any outstanding General Education requirements, major requirements listed in the "flexible timing" section, or electives to total **a minimum of 120 credits** earned for your career.

Major Requirements -- flexible timing (note prerequisites):

Course code	Title	Cr	Sem/Yr	Grade	Note
ENGL 302	Business and Technical Writing	3			Prerequisite: ENGL 113 and 114 Can be taken 2nd, 3rd, or 4th year
MATH 235	Discrete Mathematics I	3			If offered, take 2nd year

Major requirements cont. on next page

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In addition, you must complete one of the following concentrations:

Note: Some of these course are offered irregularly; others may only be offered once per year. In general, providing all prerequisites are met, 100-level courses can be taken anytime, 200-level courses can be taken in the 1st year; 300-level courses can be taken beginning in the 2nd year; 400-level can be taken beginning in the 3rd year.

Course code Title Cr Sem/Yr Grade Note

1. Information Systems

CISC 215	COBOL and File Processing	3			Prerequisite: CISC 175
CISC 255	Data Communications and Distributed Processing	3			Prerequisite: CISC 235 or permission
CISC 316	Advanced Database Development and Management	3			Prerequisite: CISC 315 and programming experience
CISC 320	Systems Analysis and Software Design	3			Prerequisite: CISC 115 and 215
MATH 120	Business Mathematics	3			Prerequisite: MATH 90 or equivalent
MATH 131	Introduction to Calculus with Applications	NA			<i>Record credits on GenEd page</i> Prerequisite: MATH 125 or equivalent
MATH 215	Probability and Statistics	3			Prerequisite: MATH 90 or equivalent

2. Software Development

CISC 165	Programming in BASIC	3			Prerequisite: CISC 105
CISC 280	Object-Oriented Programming with Java	3			Prerequisite: CISC 175 or permission
CISC 375	Computer Architecture	3			Prerequisite: CISC 235
CISC 410	Fundamentals of Operating Systems	3			Prerequisite: Instructor's permission
MATH 140	Calculus I	NA			<i>Record credits on GenEd page</i> Prerequisite: MATH 125 or equivalent
MATH 142	Calculus II	3			Prerequisite: MATH 140
MATH 310	Linear Algebra	3			
MATH 335	Discrete Mathematics II	3			Prerequisite: MATH 235 or permission

3. Game Programming

ARTS 231	3-D Animation	3			Prerequisite: ARTS/CISC 103
ARTS 233	3-D Video Game Design	3			Prerequisite: ARTS 231 or permission
CISC 103	Studio in Computer Graphics	NA			<i>Record credits on GenEd page</i>
CISC 280	Object-Oriented Programming with Java	3			Prerequisite: CISC 175 or permission
CISC 420	Software Engineering for Game Programming	3			Prerequisite: Instructor's permission
MATH 140	Calculus I	NA			<i>Record credits on GenEd page</i> Prerequisite: MATH 125 or equivalent
MATH 142	Calculus II	3			Prerequisite: MATH 140
MATH 310	Linear Algebra	3			
MATH 335	Discrete Mathematics II	3			Prerequisite: MATH 235 or permission
PHYS 210	General Physics I	NA			<i>Record credits on GenEd page</i>
PHYS 212	General Physics I Laboratory	NA			<i>Prerequisite: MATH 125 or equivalent</i>

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CISC Major Program Standards:

In order to continue in the Computer and Information Sciences major, I must qualify for advanced standing prior to the beginning of my junior year and maintain that qualification until I complete the program. To qualify, I must:

- Achieve a **minimum cumulative GPA of 2.500.**
- Achieve a **minimum cumulative GPA of 2.500 in my program requirements.**
- Complete all program requirements with a grade of C- or better. (Courses with unacceptable grades must be repeated.)
- Be making satisfactory progress toward the completion of my program of study, as determined by my advisor and the department.
- Have completed, or be in the process of completing, any program requirements in which an incomplete was received.

Undergraduate Degree Requirements:

(Minimum standards for the College -- major standards may be higher)

- I have completed all General Education domains and competencies.
- I have completed a minimum of 40 credits of General Education coursework.
- I have completed a minimum of 120 credits (see transcript or course history to verify).
- I have a cumulative GPA of 2.000 or better. (The CISC major requires a cumulative GPA of 2.500 or higher.)
- I have completed all required coursework for my major (see recommended year and flexible timing sections above).
- I have satisfied all program standards for this major (listed above and/or referenced in department publications).