

**COMPUTER INFORMATION SYSTEMS  
PROGRAMMING CERTIFICATE  
2003-2004**

\_\_\_\_\_ Certificate Electives – 12-16 credits

\_\_\_\_\_ Total Required – 29-33 credits

**General Information:**

1. Degree Policies and Procedures are in the 2003-04 Catalog online at [www.CCAurora.edu](http://www.CCAurora.edu).
2. If you plan on transferring to another institution, contact an advisor before registering.
3. See back page. For more information, visit the CIS department website [www.CCAurora.edu/cisdept](http://www.CCAurora.edu/cisdept).

**Certificate Requirements- 17 credits**

	CIS 110 Introduction to the PC	1 cr.
	CIS 115 Intro to Comp. Info. Systems	3 cr.
	CIS 188 Intro to CIS Practicum	1 cr.
	CIS 220 Fundamentals of Unix	3 cr.
	CIS 288 Fundamentals of Unix Practicum	1 cr.
	CSC 116 Logic and Program Design	3 cr.
	CSC 188 Logic/Program Design Practicum	1 cr.

**AND Choose one of the following courses and practicums:**

	CSC 154 Intro to Visual Basic .NET Programming	3 cr.
	CSC 188 Intro to Visual Basic .NET Practicum	1 cr.

**OR**

	CSC 230 C Programming	3 cr.
	CSC 288 C Practicum	1 cr.

**OR**

	CSC 240 Java Programming	3 cr.
	CSC 288 Java Prog. Practicum	1 cr.

**Programming Electives –12-16 credits**

Choose three courses and practicums from the following: (One advanced programming class is required. CIS232 does not count as an advanced programming class)

	CIS 232 Unix Shell Programming	3 cr.
	CIS 288 Unix Shell Prog. Practicum	1 cr.
	CSC 154 Visual Basic Programming	3 cr.
	CSC 188 Visual Basic Practicum	1 cr.
	CSC 157 Adv. Visual Basic .NET Prog.	3 cr.
	CSC 188 Adv. Visual Basic .NET Prac.	1 cr.
	CSC 160 Comp. Science I: C++	4 cr.
	CSC 188 Comp. Science I Practicum	1 cr.
	CSC 230 C Language Programming	3 cr.
	CSC 288 C Language Practicum	1 cr.
	CSC 231 Advanced C Language Prog.	3 cr.
	CSC 288 Adv. C Language Practicum	1 cr.
	CSC 236 C# Programming	3 cr.
	CSC 288 C# Programming Practicum	1 cr.
	CSC 237 Adv. C# Programming	3 cr.
	CSC 288 Adv C# Programming Prac.	1 cr.
	CSC 240 Java Programming	3 cr.
	CSC 288 Java Prog. Practicum	1 cr.
	CSC 241 Adv. Java Programming	3 cr.
	CSC 288 Adv. Java Practicum	1 cr.

\_\_\_\_\_ Total Requirements – 17 credits

**Notes**

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**COLLEGE PREP COURSES**

Each course is 3 credits except where indicated.

ACT Score	SAT Score	Accu-Placer	English:
15		0-39	ENG 030 Basic Writing Skills
16		40-59	ENG 060 Writing Fundamentals
17		60-85	ENG 090 Basic Composition
18	450	86+	ENG 121 English Composition I
			Reading:
16		0-59	REA 060 Foundations of Reading
17		60-82	REA 090 College Prep Reading
			Math:
15		0-44 ar	MAT 030 Fund. of Math, 2 cr.
16		45-60 ar	MAT 060 Pre-Algebra
17		40-54 ea	MAT 090 Intro. Algebra, 4 cr.
18		55+ ea	MAT 106 Survey of Algebra, 4 cr.
19	440	72+ ea	MAT 121 College Algebra, 4 cr.

**ENGLISH AS A SECOND LANGUAGE**

Recm. LOEP		
25-56 lu	ESL 021 Basic Grammar/Writing	1-5 cr.
57-76 lu	ESL 022 Intermediate Grammar	3-5 cr.
77-95 lu	ESL 023 Advanced Grammar	3 cr.
25-59 sm	ESL 031 Basic Conversation	1-5 cr.
60-94 sm	ESL 032 Intermediate Conversation	3-5 cr.
25-49 rs	ESL 041 Basic Reading	1-5 cr.
50-74 rs	ESL 042 Intermediate Reading	2-4 cr.

**STUDY SKILLS CLASSES**

	COM 121 College Survival Skills	3 cr.
	PSY 109 Career Development	1-3 cr.
	STS 060 Learning Success Strategies	1-3cr.

**SCHEDULING SUGGESTIONS**

1. See your advisor about balancing your workload with credit load.
2. Transfer and financial aid students should consult an advisor before registering.



**Our Website Has The Following Information:**

- College Catalog and Semester Schedule
- Online Registration and Online Courses
- Financial Aid, Advising and much more.

**ONLINE AND HYBRID CLASSES**

Many of the classes in this degree can be taken “online” or “hybrid” (a combination of alternative and in-classroom instruction). Symbols in the semester schedule indicate which classes are offered in either format.

**Online/Hybrid Course Information:**

<http://www.CCAurora.edu/infosheets>

**IMPORTANT PHONE NUMBERS:**

Admissions & Registration	303 360-4713
Financial Aid	303 360-4709
Advising	303 360-4797
Learning Resource Center	303 360-4736
Business Office	303 360-4763
Bookstore	303 360-4774
Lowry Campus One-Stop	303 340-7093

**STUDENT CHECKLIST**

\_\_\_ **Application** – Apply in person or online at [www.CCAurora.edu](http://www.CCAurora.edu). Call for more info: 303-360-4700.

\_\_\_ **Financial Aid** – To apply for grants, loans, scholarships, fill out a FAFSA form available in the Financial Aid Office or online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Call for more info: 303-360-4709.

\_\_\_ **Assessment** – All new students are required to take the basic skills assessment for placement into the appropriate English, reading and math courses. Assessment may be waived for certain students with ACT / SAT scores, completed degrees, are non-degree seeking or meet enrichment status, and for some transfer students. Call for more info: 303-360-4736.

\_\_\_ **Residence Hall** – Request more information on dorm room and board at Lowry by calling 303-340-7001.

\_\_\_ **Advising** – Contact an academic advisor to discuss goals and degree program requirements. Call for more info: CTC: 303-360-4797 or LC903: 303-340-7093.

\_\_\_ **PIN** – Select a personal identification number to access your student records at the Advising Center or Admissions and Records. Call for more info: CTC: 303-360-4797 or LC903: 303-340-7093.

\_\_\_ **Registration** – Once you have selected your classes and have your PIN, register online at [www.CCAurora.edu](http://www.CCAurora.edu), by phone at 303-825-2747 or on-site at CTC or LC903. For more info: call CTC: 303-360-4700 or LC903: 303-340-7093.

\_\_\_ **Payment** - Tuition must be paid by the due date. You may sign a promissory note with the business office. For more info: call 303 360-4763.

\_\_\_ **Attend class!** If you want to change your schedule, complete a Drop-Add form. Note: If you are receiving Financial Aid notify them of any drops to your schedule. It may affect your award! For more info: call 303-360-4713.

**Instructional VP and Deans:**

Greg Goode, Vice President of Instruction & Std Svc  
Bob Fulcomer, Dean of Business, Math, & Computers  
Jerry Martens, Dept. Chair, Computers  
Libby Broughton, Transfer Advisor