

Coppin State College Computer Science Major Requirements (Revised 2/25/97)

Fifteen (15) specific Computer Science courses and two (2) specific Mathematics courses must be taken. Students in the “graduate school track” should take additional Mathematics courses as described below in III.

I. **Required Computer Science Courses**—The semester [F=Fall], [S=Spring] when a once-per-year course is offered is enclosed in brackets; *prerequisites* in *parenthesis*.

COSC 200		Computer Programming I (College Algebra)
COSC 201		Computer Programming II (COSC 200)
COSC 202	[S]	Data Structures (COSC 201)
COSC 205	[S]	Programming Languages (COSC 201)
COSC 207	[S]	Assembly Language and Machine Org. (COSC 201 and MATH 211)
COSC 302	[F]	Advanced Data Structures and Files (COSC 202 and MATH 211)
COSC 306	[S]	Operating Systems (COSC 201)
COSC 307	[F]	Artificial Intelligence (COSC 201)
COSC 310	[F]	Systems Programming (COSC 201)
COSC 312	[S]	Database Management Principles (COSC 202 and MATH 211)
COSC 339	[F]	Programming with Visual Basic (COSC 201)
COSC 406	[S]	Data Communications Systems (COSC 201)
COSC 409	[F]	Software Engineering (COSC 202)
COSC 410	[S]	Developing Windows Applications Using C++ (COSC 339 and COSC 409)
COSC 417	[F]	Computer Science Senior Seminar

II. **Required Mathematics Courses**

MATH 211	[F]	Discrete Mathematics I (College Algebra or Precalculus)
MATH 212	[S]	Discrete Mathematics II (MATH 211)

III. **Mathematics Courses for the “Graduate School Track”**

MATH 201		Calculus I
MATH 202	[S]	Calculus II
MATH 301	[F]	Linear Algebra
MATH 302	[F]	Numerical Methods