

MINOR FIELD: PROGRAMMING FUNDAMENTALS

DEPARTMENT: Mathematics—Computing Sciences—Physics

TOTAL NUMBER OF CREDITS: 18 credits

RATIONALE: A minor in *Programming Fundamentals* is designed to teach the basic computer programming skills. This minor is meant to complement fields such as biology, chemistry, medicine, and business where programming and database skills can be used to support research as well as automate scientific and business applications.

REQUIREMENTS: *12 credits*

CIS 105	3D Computing	(3 credits)
CIS 218	Software Design & Programming	(3 credits)
CIS 224	Database	(3 credits)
INFO 230	Web Design	(3 credits)

ELECTIVES: Choose a total of *6 credits* from the following:

MATH 216	Fundamentals of Discrete Mathematics	(3 credits)
CIS 317	Computer Architecture	(3 credits)
CIS 326	Data Structures	(3 credits)
INFO 404	Human Computer Interaction	(3 credits)
INFO 420	Information Security	(3 credits)

DEPARTMENT ADVISOR: Dr. M.E. Jones

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