

BAKER UNIVERSITY MAJOR CHECKLIST

COMPUTER SCIENCE
B.S. Degree ONLY

MAJOR REQUIREMENTS

COURSES COMPLETED OR IN PROGRESS

REQUIRED COURSES:

- CS175 Intro to Computer Science: C++ (4 hrs)
- CS185 Data Structures (4 hrs)
- CS223 Computer Architecture and Organization (3 hrs)
- CS226 Operating Systems (4 hrs)
- CS335 Computer Networks (3 hrs)
- CS341 Programming Languages (C++, Prolog, Cobol) (4 hrs)
- CS371 Database Design (4 hrs)
- CS392 Software Engineering (4 hrs)
- CS491 Senior Capstone Project (3 hrs)

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COMPLETE ONE OF THE FOLLOWING TRACKS:

TRACK 1: TRADITIONAL COMPUTER SCIENCE

Two elective computer science courses numbered 200 or above

Supporting Coursework

- MA171 Calculus I (4 hrs)
- MA172 Calculus II (4 hrs)
- MA291 Introduction to Higher Mathematics (3 hrs)
- One additional semester hour of mathematics numbered 145 or above

TRACK 2: GAME PROGRAMMING

- CS320 Introduction to Computer Graphics (4 hrs)
- CS325 Introduction to Game Design and Development (4 hrs)
- CS425 Advanced Game Design and Development (4 hrs)

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Supporting Coursework

- MA171 Calculus I (4 hrs)
- PC125 Introductory Physics I **OR** PC225 General Physics I

Four additional semester hours of courses chosen from the following options:

- Mathematics numbered 145 or higher (1-4 hrs)
- PC126 Introductory Physics II (4 hrs)
- PC226 General Physics II (4 hrs)
- MM230 Digital Media I (3 hrs)
- MM231 Digital Media II (3 hrs)

TRACK 3: COMPUTER INFORMATION SYSTEMS

- AC141 Introduction to Financial Accounting
- BS141 Introduction to Business
- BS230 Quantitative Analysis for Business and Economics I
- BS330 Quantitative Analysis for Business and Economics II
- BS331 Business Information Systems
- BS353 Fundamentals of Management
- EC242 Principles of Economics: Micro

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STUDENT NAME: _____

STUDENT NUMBER: _____

DATE: _____