### Bachelor of Science in Computer Science - Checksheet: Catalog Year 2016-2017

Name: ____________________________  ID#: ____________________________  Expected Graduation Date: ____________

#### AREA A *
- **Grade**
  - ENGL 1101
  - ENGL 1102
  - MATH 1113

#### AREA B/C
- **Grade**
  - COMS 1100
  - INQR 1000
  - HUMN 2001
  - HUMN 2002

#### AREA D
- **Grade**
  - LAB SCIENCE
  - LAB SCIENCE
  - MATH 2011

#### AREA E
- **Grade**
  - POLS 1101
  - HIST 2111/12
  - SOC SCI
  - SOC SCI ELECT

#### AREA F *
- **Grade**
  - MATH 2012
  - LAB SCIENCE
  - CSCI 1301
  - CSCI 1302
  - CSCI 2700
- Must earn a C or better *
- Minimum hours needed to earn a BS: 124

#### JR/SR COMMON COURSES (31 hours) *
- **Grade**
  - MATH 2210 - Elementary Statistics
  - CSCI 3030 - Mathematical Structures for Comp Sci (requires MATH 2011)
  - CSCI 3170 - Computer Organization
  - CSCI 3271 - Operating System I
  - CSCI 3370 - Assembly Language Programming
  - CSCI 3400 - Data Structures
  - CSCI 3410 - Database Systems (requires CSCI 3400)
  - CSCI 3500 - Theory of Computation (requires CSCI 3400 + CSCI 3030)
  - CSCI 4711 - Software Engineering (requires CSCI 3410)
  - CSCI 4712 - Senior Capstone Project (requires CSCI 4711)

#### MAJOR EMPHASIS (12 hours) *
- **Grade**
- Three CSCI courses and one MATH course.

#### MAJOR EMPHASIS OPTIONS
- **Select THREE courses from below:**
  - CSCI 3300 – Progr Languages (requires CSCI 3400 + CSCI 3030)
  - CSCI 3420 – Distributed & Mobile Systems
  - CSCI 3520 – Introduction to Cyber Security (requires CSCI 3271)
  - CSCI 3600 – Internet Programming (requires Database + Web Devel)
  - CSCI 4280 – TCP/IP Protocol Analysis (requires CSCI 3271)
  - CSCI 4950 – Selected Topics (requires Permission of Instructor)
  - CSCI 4960 – Undergrad Internship (requires Securing an Internship)
  - CSCI 4990 – Undergrad Research (requires Permission of Instructor)

- **Select ONE course from below:**
  - MATH 3250 - Intro to Stats and Data Analysis (requires MATH 2011)
  - MATH 3280 – Linear Algebra (requires MATH 2012)
  - MATH 3710 – Combinatorics (requires MATH 2012)
  - MATH 4211 - Modern Abstract Algebra I (requires MATH 2030)
  - MATH 4320 - Theory of Numbers (requires MATH 2012)
  - MATH 4350 – Numerical Analysis (requires MATH3020 + MATH3280)
  - MATH 4420 – Intro to the Theory of Graphs (requires CSCI 3030)

#### GENERAL ELECTIVES (17 hours)
- **Grade**

#### WELLNESS REQ
- **Grade**
  - WELL 1000
  - Activity Course
  - Activity Course

#### Note:
Must apply for graduation the semester before your final semester. Take the ETS Exit Exam your final semester.

#### GENERAL ELECTIVES OPTIONS
- Any AU course that is not a wellness may be used as a general elective.

#### Rarely Offered:
- CSCI 4820 – Computer Graphics

#### Not Currently offered:
- CSCI 3430 – Artificial Intelligence
- CSCI 4272 – Operating Systems II
- CSCI 4800 – Compiler Writing
MATH 4420 – Intro to the Theory of Graphs (requires CSCI 3030)