NAME: Joshua Holloway

Ira A. Fulton Schools of Engineering
ARIZONA STATE UNIVERSITY

ASU ID: 1210205565

# PH.D. in Computer Engineering

☐ **Computer Systems (CS)** ☐ **Electrical Engineering (EE)**

**6 Core Credits + 42 Elective Credits + 0-6 Reading and Conf. + 12-18 Research + 12 Dissertation + 0-12 Electives = 84 Credit Hours**

## 6 Credit Hours Core Courses

Admit Semester and Year: Spring 2016

**Admitted Fall 2015 and Earlier:**

- ☐ **CEN 501 Computer Systems I** Semester:_____ Year:_____
- ☐ **CEN 502 Computer Systems II** Semester:_____ Year:_____

**OR**

**Admitted Spring 2016 and Later:**

- ☐ **EEE 554 Random Signal Theory** Semester: Spring Year: 2016
- ☐ **CSE 551/591 Foundations of Algorithms** Semester: Spring Year: 2016

## 42 Credit Hours Elective Courses

☐ Select at least **24 credit hours** of courses from the CE-Area of Study to provide a breadth of knowledge in CE to support an extensive research and dissertation experience. Selection of CE-Area courses must satisfy the following constraints:

Select at least **12 credit hours** of courses noted with **M*** or **D*** from the CE- Areas of Study.
Only **6 credit hours** can be courses noted with **M***in the CE-Areas of Study.

- M*or D* Course: EEE 591 Digital Signal Processing Area: MSP Semester: Fall Year: 2017
- M*or D* Course: EEE 508 Digital Image Processing Area: MSP Semester: Fall Year: 2017
- D* Course: CSE 509 Digital Video Processing Area: MSP Semester: Spring Year: 2019
- D* Course: CSE 522 Real-Time Embedded Systems Area:DDSS Semester: Spring Year: 2020

Remaining credit hours can be other courses from the CE-Areas of Study (**No M* Courses**)

- Course: CSE 531 Distrib/Multiprocess Oper Sys Area:DDSS Semester:Fall Year:2019
- Course: CSE 536 Advanced Operating Systems Area: DDSS Semester:Fall Year:2019
- Course: CSE 520 Computer Architecture 2 Area: VLSI Semester:Spring Year:2019
- Course: CSE 534 Adv Computer Networks Area:CN Semester: Spring Year:2020

☐ Select at least **18 credit hours** of Science, Engineering, or Mathematics courses, in consultation with your graduate faculty advisor, that are intended to provide a level of breadth and depth in basic science and analytical methods well beyond that required for the Masters level.

- Course: EEE 507 Multidimensional Signal Processing Semester: Fall Year:2016
- Course: CEN 598 Hardware Acceleration and FPGA Semester: Spring Year: 2017
- Course: CSE 535 Mobile Computing Semester: Spring Year: 2018
- Course: CSE 591 Deep Learning Visual Computing Semester: Spring Year:2018
- Course: EEE 598 Computational Image Understand Semester: Fall Year:2018
- Course: EEE 598 Mobile Systems Architecture Semester: Fall Year: 2018

**CE Areas of Study**

VLSI and Architecture – VLSI & A
Embedded Control Systems – ECS
Communications and Networks – CN
Distributed, Dependable and Secure Systems – DDSS
Multimedia and Signal Processing - MSP
Systems Optimization – SO

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## Reading and Conference

☐ At most **6** credit hours of CEN 790: Reading and Conference

- CEN 790: Credit Hours: 6 Hours Spring 2017

## Research

☐ At least **12** and at most **18** credit hours of CEN 792: Research

- CEN 792: Credit Hours: 18 Hours

## Dissertation

☐ **12** credit hours of CEN 799: Dissertation

☐ A successful oral dissertation defense

## Electives - If needed to meet 84 Credits

- Course _____ Semester:_____ Year:_____
- Course _____ Semester:_____ Year:_____
- Course _____ Semester:_____ Year:_____
- Course _____ Semester:_____ Year:_____

## Overall Credits

☐ **At least 84 Credits**
☐ **CS: 12 Credits CSE or CEN (not including core)**
☐ **CS: 6 Credits EEE or CEN (not including core)**
☐ **EE: 12 Credits EEE or CEN (not including core)**
☐ **EE: 6 Credits CSE or CEN (not including core)**
☐ **CEN 584 Credit Hours (Maximum 2) _____**
☐ **No more than 6 credits 400 level courses**
☐ **No more than 12 credits cross listed courses (5XX/4XX)**
☐ **No more than 12 credits of combined cross listed courses and 400 level courses**

**If you are planning to apply credits from a previously earned MS degree, please attach the Computer Engineering Transfer Credit Request Form.**

**Please use this sheet as a guide when filling out the iPOS. After electronic submission of the iPOS please turn in this sheet, along with your iPOS signed by your faculty advisor, to the appropriate Advising Center:**
**CS - BYENG 225 EE - Goldwater Center 209.**

| **Academic Advisor:** _____ | **Faculty Advisor:** _____ |
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*Updated 1/2016 CS*