Graduate Program Proposals

Department of Computer & Information Science & Engineering (CISE)

Graduate Council 3/20/14

CISE Degree Programs: Current Structure

PhD
Computer Engineering

MS
Digital Arts & Sciences

MS
Computer Science
Liberal Arts & Sciences

MS
Computer Engineering

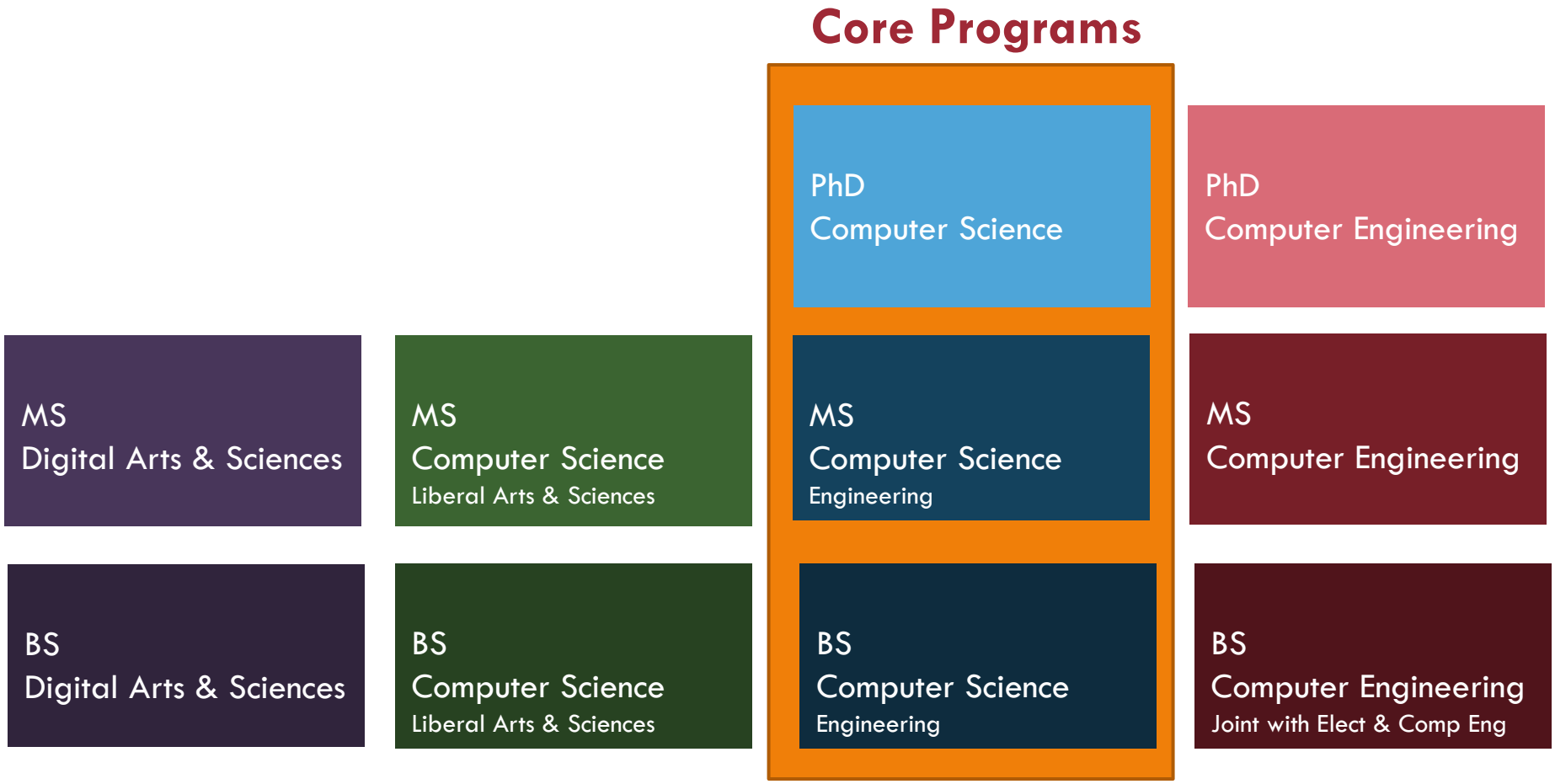
BS
Digital Arts & Sciences

BS
Computer Science
Liberal Arts & Sciences

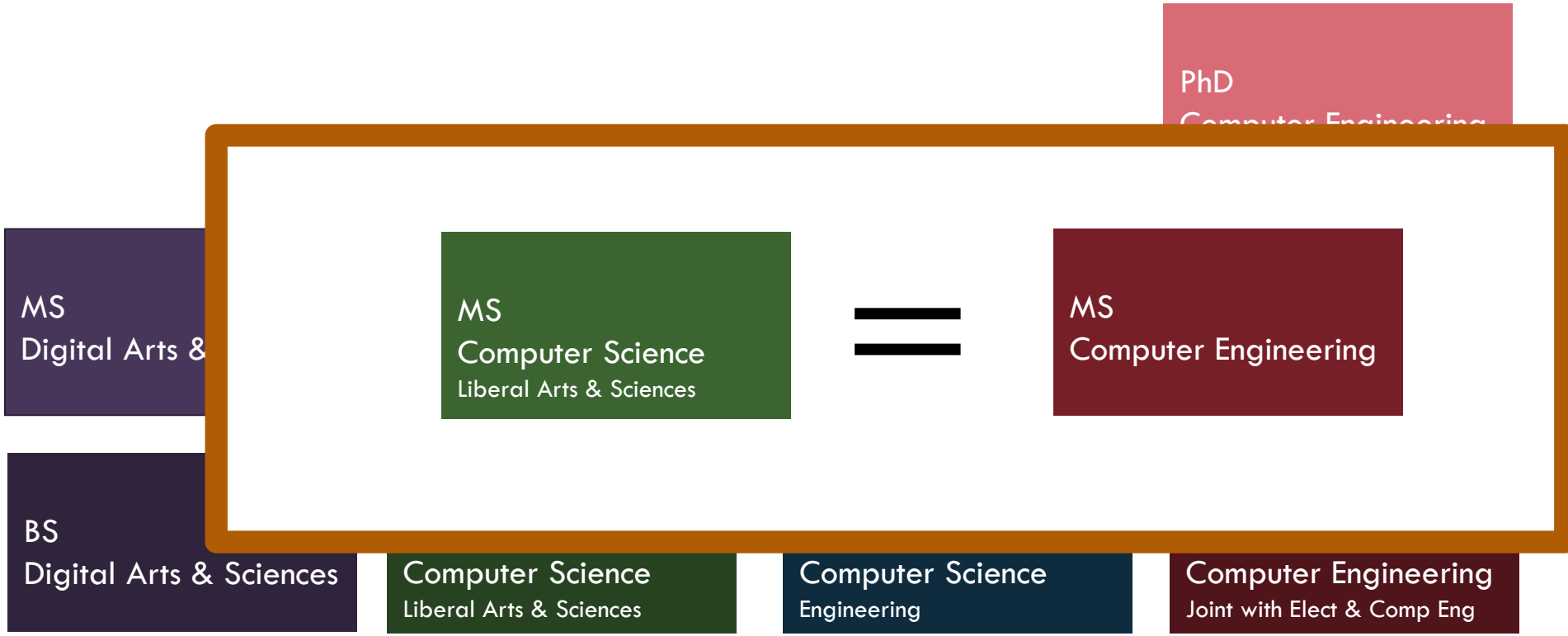
BS
Computer Science
Engineering

BS
Computer Engineering
Joint with Elect & Comp Eng

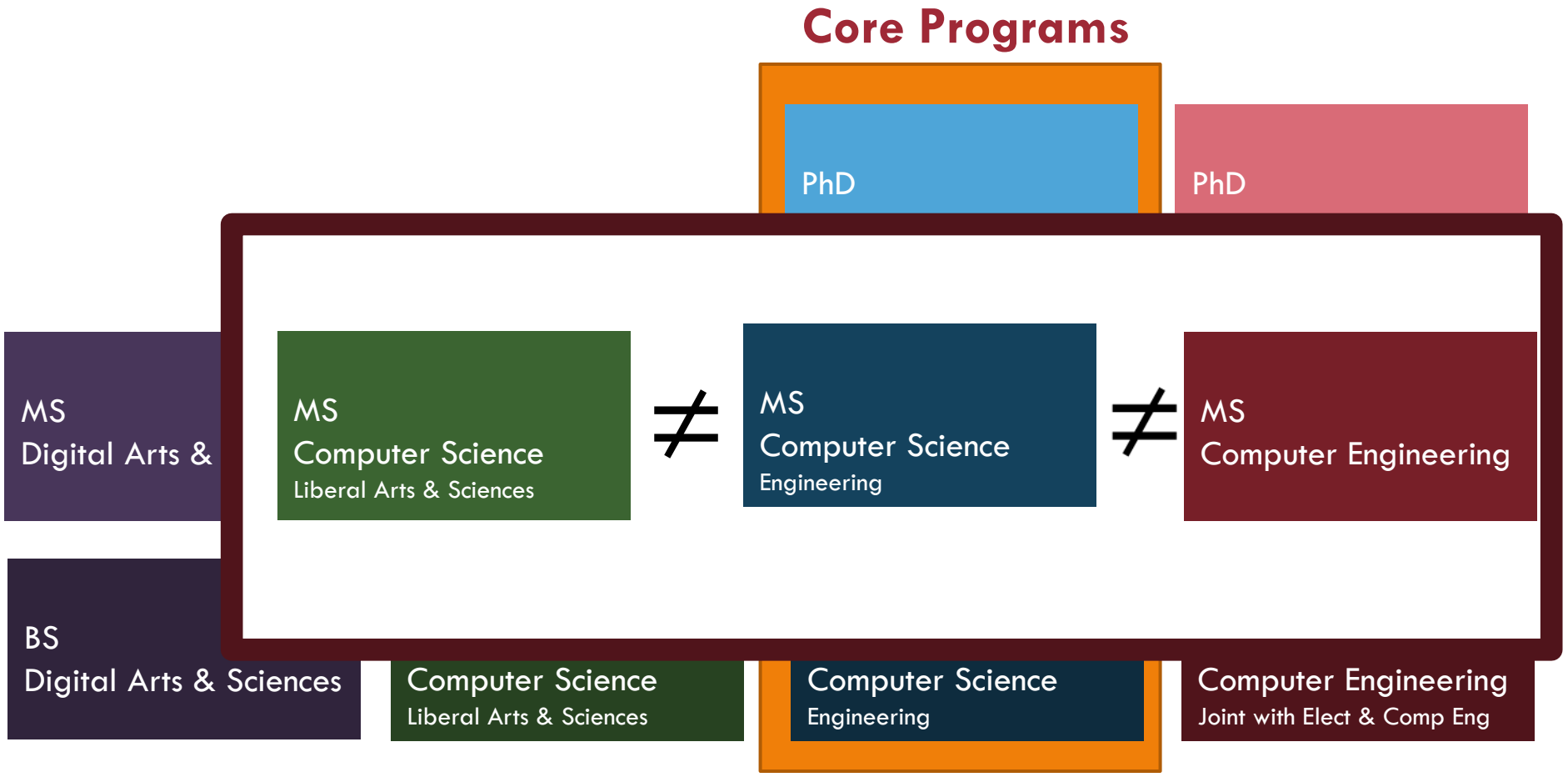
CISE Degree Programs: Proposed Structure



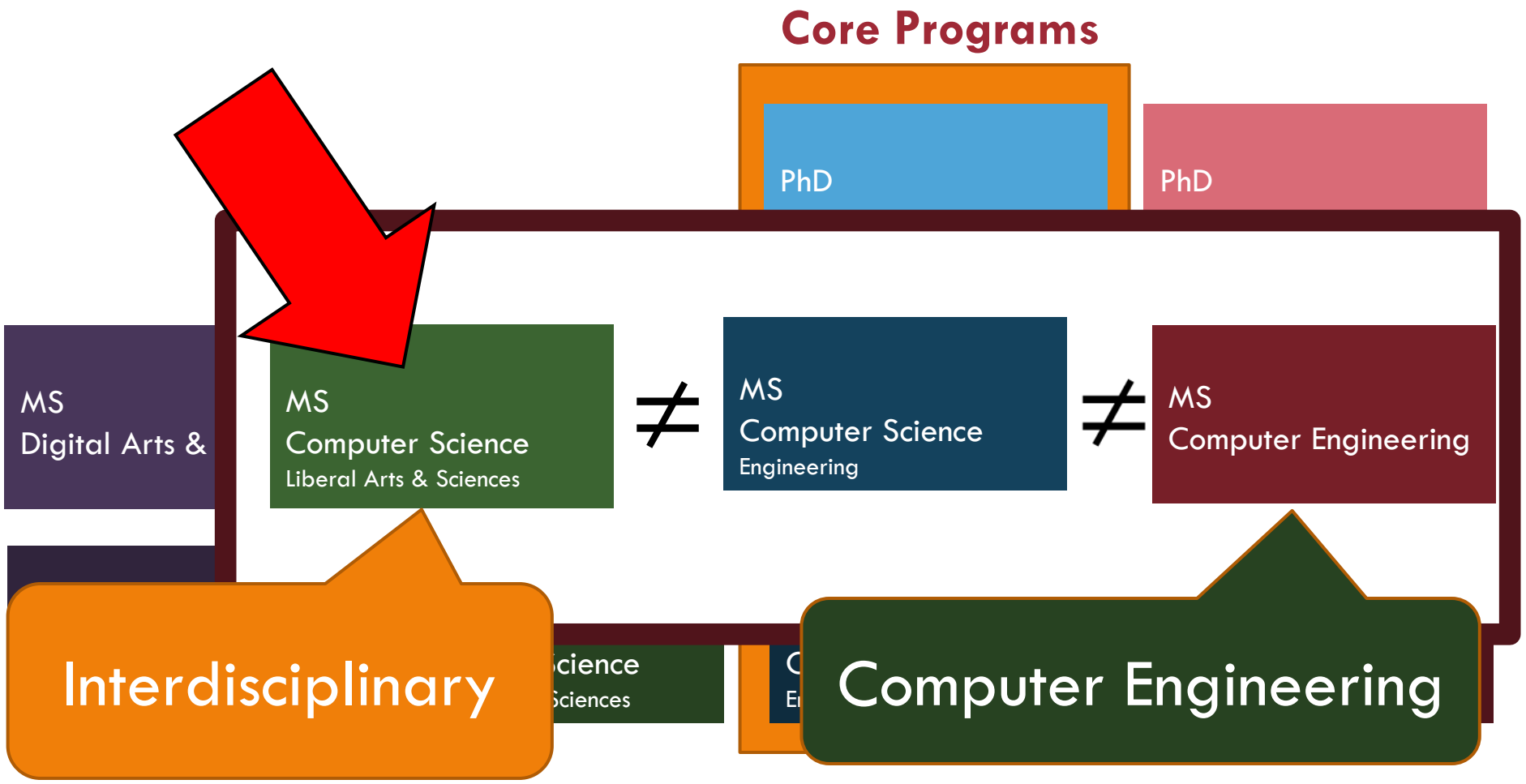
CISE Degree Programs: Current Structure



CISE Degree Programs: Proposed Structure



CISE Degree Programs: Proposed Structure



Proposed Core Requirements

CS CLAS (9)	CS Engineering (12)	Comp Eng (12)
COT 5405 Analysis of Algorithms	**COT 5405** Analysis of Algorithms **COP 5555** Programming Language Principles	**COT 5405** Analysis of Algorithms **CDA 5155** Computer Architecture Principles
2 from 5: • **COT 5615** Mathematics for Intelligent Systems • **COT 6315** Formal Languages and Computation Theory • **CNT 5106C** Computer Networks • **COP 5536** Advanced Data Structures • **COP 5555** Programming Language Principles	2 from 4: • **CDA 5155** Computer Architecture Principles • **COP 5615** Distributed Operating System Principles • **CNT 5106C** Computer Networks • **COP 5536** Advanced Data Structures	2 from 3: **CNT 5106C** Computer Networks **COP 5615** Distributed Operating System Principles **CDA 5636** Embedded Systems

Other Requirements (non-thesis)

CS CLAS (21)	CS Engineering (18)	Comp Eng (18)
21 graduate-level credits: • At least 9 CISE • At least 9 non-CISE, with at least 3 CLAS • **The student's program must form a coherent specialization which must be approved by the Graduate Affairs Committee.**	18 graduate-level credits: • At least 12 CISE • Max 6 non-CISE with approval	18 graduate-level credits: • At least 9 CISE • Max 9 ECE or other non-CISE courses with approval
30 Credits total	30 Credits total	30 Credits total

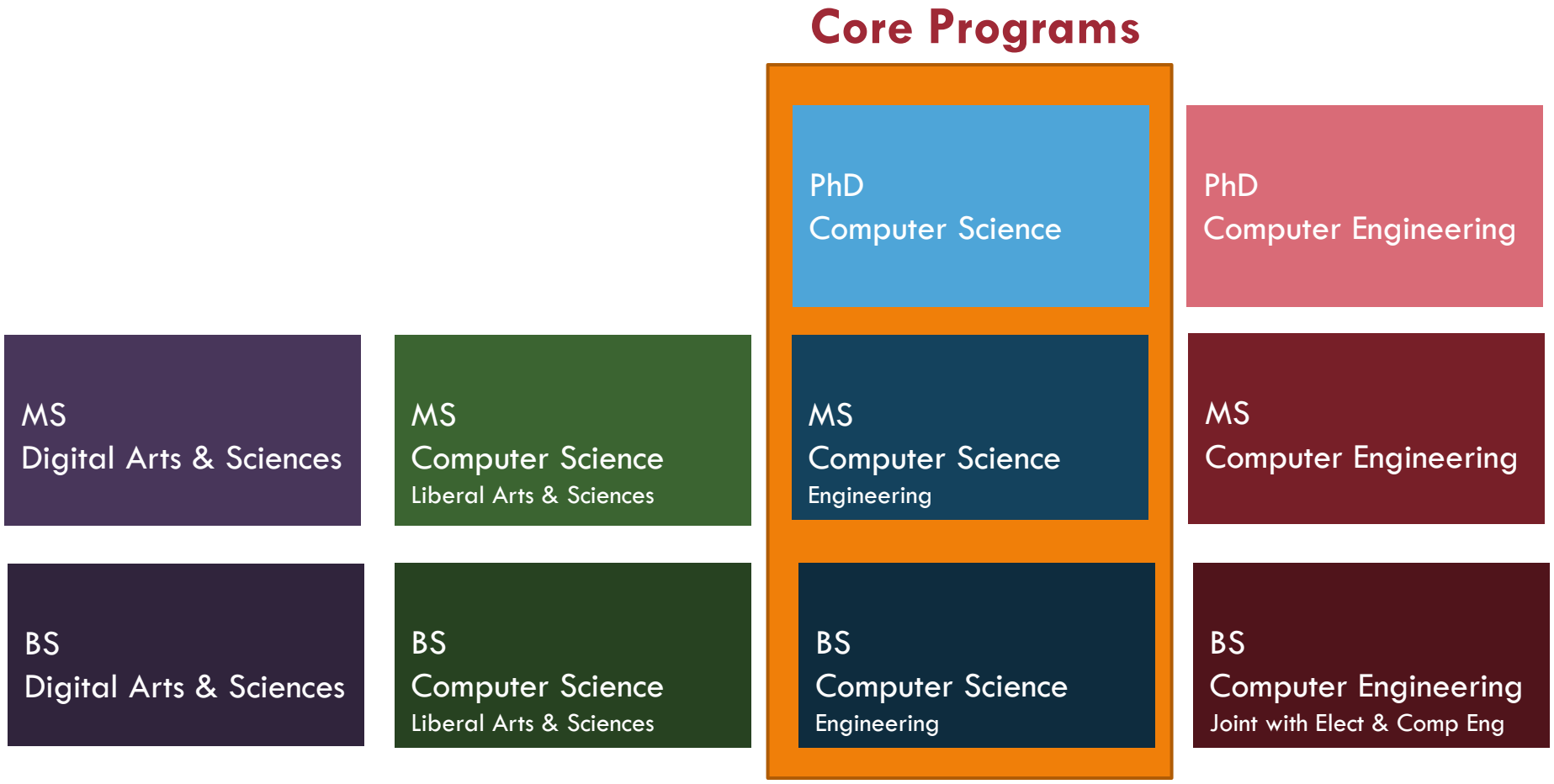
Other Requirements (thesis)

CS CLAS (21)	CS Engineering (18)	Comp Eng (18)
21 graduate-level credits: • At least 6 CISE non-research • At least 6 non-CISE, with at least 3 CLAS • 6 CIS 6971 MS research • **The student's program must form a coherent specialization which must be approved by the Graduate Affairs Committee.**	18 graduate-level credits: • At least 9 CISE non-research • Max 6 non-CISE with approval • 6 CIS 6971 MS research	18 graduate-level credits: • At least 6 CISE • Max 9 ECE or other non-CISE courses with approval • 6 CIS 6971 MS research
30 Credits total	30 Credits total	30 Credits total

Other (common to all)

- Up to 1 credit of CIS 6935 (Graduate Seminar) allowed.
- Up to 3 credits of CIS 6905 (Individual Study) allowed.
- EXCLUDES CIS 6910, CIS 6940.
- Up to 3 credits of EGN5949 (internship) allowed.

CISE Degree Programs: Proposed Structure



PhD Proposal

- No BOG mechanism for changing the CIP code on a program
- Propose new PhD in Computer Science while maintaining existing PhD in Computer Engineering
  - students can choose appropriate label based on their research topic
  - requirements the same
  - we guess that 2/3 of our PhD students will choose CS once available, both degrees will be viable