Computer Science Bachelor of Arts (B.A.)
ADVISING GUIDE for adding STEM Education Minor
and Computer Science Teacher Licensure (grades 4-12)

Computer Science and STEM Education courses:

Fall Semester	Spring Semester
ARSC 1201* Intro to Teaching STEM Subjects *(*fulfills freshmen requirement:* *UNIV 1001 University Perspectives)*	**ARSC 1212 Inquiry Approach to Teaching STEM Subjects** **CSCE 2004 Programming Foundations I** **CSCE 2114 Digital Design**
STEM 2103 Knowing & Learning (Fa) **CSCE 2014 Programming Foundations II** **CSCE 2214 Computer Organization** Recommendation for core Social Science Elective, and as an elective for the STEM Ed minor: **STEM 2003 The Art of STEM Communication**	**STEM 3203 Classroom Interactions (Sp)** **CSCE 3193 Programming Paradigms** COMM 1313 Public Speaking *(students can petition to substitute STEM 4506 Teaching Internship)*
CSCE 3513 Software Engineering CSCE Elective (3) (3000-level or higher)	**CATE 4073 Teaching Programming in Secondary Schools** **CSCE 3613 Operating Systems** CSCE Elective (3) (3000-level or higher)
CSCE Elective (3) (3000-level or higher) CSCE Elective (3) (3000-level or higher)	**STEM 4506 Teaching Internship – Computer Science** *(full-time teaching in high school for 16 weeks beginning after New Year's when school district starts)* **STEM 4403 – Teaching Seminar** – *meets on campus one night a week*

Add other degree requirements and electives to reach 120 credit hours to graduate.

Recommended for CSCE electives to further support passing of the Computer Science PRAXIS exam, necessary to teach Computer Science in Arkansas:
CSCE 4133 Algorithms
CSCE 4523 Database Management

Notes:

Recommended for those interested in adding Mathematics Licensure (grades 7-12):
      STEM 4303 Teaching Secondary Mathematics I (fall)
      STEM 4313 Teaching Secondary Mathematics II (spring)

Students who choose not to complete the teacher licensure program should consider completing the
      9-credit hour Certificate in STEM Education or the 15-credit hour Minor in STEM Education.
Go to **STEM.uark.edu** for more information about the STEM Education options.

Contact Dr. Kim McComas with questions about Computer Science teacher licensure (or the STEM Ed
      Minor or STEM Ed Certificate): kmccomas@uark.edu