



**College of Education
Academic Learning Compacts**

Science Education, B.S. - Physics

Discipline Specific Knowledge, Skills, Behaviors, and Values

1. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of assessment including the identification and appropriate use of various types of assessment strategies that can be used to determine student levels, needs, and learning outcomes.
2. Students will acknowledge that effective teaching requires a commitment to continuous professional development and school improvement, and will demonstrate knowledge, skills, and dispositions required of teachers in the area of continuous improvement.
3. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of diversity to include knowledge and appreciation of cultural, linguistic, and learning style differences and how these differences affect classroom practices and student learning.
4. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of ethics and, in particular, will know and apply the Code of Ethics and Principles of Professional Conduct of the Education Profession in Florida.
5. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of human development and learning and will apply related theories to support the intellectual, personal, and social development of all students.
6. Students will demonstrate knowledge, skills, and dispositions required of Physics (grades 6-12) teachers in the area of content knowledge specific to their certification area (knowledge of relevant subject matter) in accordance with the applicable state subject area standards as listed in section 32 of “Competencies and Skills Required for Teacher Certification in Florida” (available online at <http://www.firn.edu/doe/sas/ftce/ftcecomp.htm>).
7. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of learning environments in order to create and sustain a safe, efficient, supportive learning environment for students.
8. Students will demonstrate discipline-specific knowledge, skills, and dispositions; effective communication skills, and critical thinking in the form of reflective analysis of their professional growth across the full spectrum of all

Note: Since this is a state-approved, initial certification teacher education program, student learning outcomes derive from Florida Educator Accomplished Practices and program-specific (subject area) state standards for teacher education and certification.

12 Florida Educator Accomplished Practices (state standards for teacher education).

Critical Thinking

9. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of critical thinking including the knowledge and use of strategies, materials, and technologies that promote and enhance students' critical and creative thinking.
10. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of planning in order to be able to plan and conduct lessons in a variety of learning environments that lead to student learning outcomes consistent with state and district standards.
11. Students will demonstrate discipline-specific knowledge, skills, and dispositions; effective communication skills, and critical thinking in the form of reflective analysis of their professional growth across the full spectrum of all 12 Florida Educator Accomplished Practices (state standards for teacher education). *(repeat of #8)*

Communication

12. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of communication to include strategies and techniques for effective communication with students, parents, faculty, other professionals, and the public.
13. Students will demonstrate knowledge, skills, and dispositions required of teachers regarding their role as a professional educator (role of the teacher) including knowledge of collaborative strategies for working with various education professionals, parents, and other stakeholders and for identifying student behaviors that may indicate concerns such as emotional distress, substance abuse, and abuse or neglect.
14. Students will demonstrate knowledge, skills, and dispositions required of teachers in the area of using technology to enhance teaching and learning.
15. Students will demonstrate discipline-specific knowledge, skills, and dispositions; effective communication skills, and critical thinking in the form of reflective analysis of their professional growth across the full spectrum of all 12 Florida Educator Accomplished Practices (state standards for teacher education). *(repeat of #8)*

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Assessment of Science Education – Physics Outcomes

These outcomes will be assessed using a variety of assessment methods, including:

- tests including all applicable sections of the Florida Teacher Certification Examination
- projects
- evaluation rubrics
- portfolio
- student teaching experience (Internship II)

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