Endorsement in Natural Science: Undergraduate Knowledge Base

Outcome 1. Inquire and Reflect
Teacher candidates inquire and reflect to facilitate learning and foster development of all learners.

1.1 Inquiry - Candidates demonstrate an understanding of the importance of curiosity, and the ability to seek and reflect on new knowledge.

1.2 Reflect - Candidates reflect on their personal positions.

Assess and evaluate the possible physical, social, emotional, and intellectual effects on and for self and others as a result of their choices.

Outcome 2. Learning and Growth in a Caring Community
Teacher candidates plan, facilitate, and evaluate learning opportunities that facilitate learning and growth in a caring community.

2.1 Plan - Candidates plan how to facilitate learning and growth in a caring community.

Based on local and national standards and best practices, candidates identify and develop opportunities for students to learn and grow in the social, emotional, and intellectual aspects of their lives.

2.2 Evaluate learning - Candidates create an environment that fosters learning and growth.

Reflect on what key principles lead to positive outcomes for students.

2.3 Evaluate teaching - Candidates apply the key principles of effective teaching strategies to the classroom setting.

Outcome 3. Knowledge, Skills, and Dispositions
Teacher candidates demonstrate an integration of knowledge, discipline, theory, and skills.

3.1 Knowledge - Candidates are knowledgeable of the content and context of the subject they teach.

Read and analyze the research and theories related to the subject area.

3.2 Skill - Candidates demonstrate skills in teaching and learning.

Identify and structure information in their subject areas for the purpose of making sense of and creating meaning in the subject.

3.3 Disposition - Candidates demonstrate the attitudes and dispositions that promote the desire to inquire and learn about their subjects.

Based on current research and the wisdom of others.

Outcome 4. Communication Skills
Teacher candidates have the ability, skill, and desire to communicate with understanding.

Interact in a manner that reflects the subject and the nature of the student.

Outcome 5. Professionalism
Teacher candidates possess and demonstrate the values, demeanor, and reflexive discernment of a professional educator.

Foster development in all learners.

Professionalism - Candidates welcome and maintain positive relationships with the group and other stakeholders in the learning environment.

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Field Endorsement in Natural Science: Undergraduate Knowledge Base

Courses completed: 6 credits

Required Courses: 12 credits

Elective Courses: 3 credits

Total Hours: 45

Required Courses:

- BIO 110: Intro to Biology
- CHE 110: General Chemistry I
- PHY 110: General Physics I
- EAS 110: Introduction to Geology
- EDU 201: Intro to Professional Education
- EDU 300: Test & Measurement

Elective Courses:

- BIO 120: Intro to Ecology
- CHE 120: Organic Chemistry
- PHY 120: Particle Physics
- EAS 120: Advanced Geology
- EDU 310: Read & Write in the Mid/Sec

General Education Courses:

- MAT 111: Intro to Calculus
- PHI 111: Intro to Ethics
- SOC 111: Intro to Sociology
- ART 111: Intro to Art
- HIS 111: Intro to History
- ENG 111: Intro to English

General Education Course (3 credits)

- COM 111: Intro to Speech
- PSY 111: Intro to Psychology
- PSY 112: Psychology of the Individual
- PSY 113: Psychology of the Group
- PSY 114: Psychology of Society

Graduation requirements:

- 120 credit hours
- 46 hours in General Education
- 34-38 hours in professional education
- 66 total hours

Program goals:

- Further the education profession
- Enhance knowledge and understanding
- Identify and improve efficiency
- Value diversity
- Foster development in all learners

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Plan - Candidates plan how to facilitate learning and growth in a caring community.

Based on local and national standards and best practices, candidates identify and develop opportunities for students to learn and grow in the social, emotional, and intellectual aspects of their lives.

Evaluate learning - Candidates create an environment that fosters learning and growth.

Reflect on what key principles lead to positive outcomes for students.

Evaluate teaching - Candidates apply the key principles of effective teaching strategies to the classroom setting.

Outcome 3. Knowledge, skills, and dispositions

Teacher candidates demonstrate an integration of knowledge, discipline, theory, and skills.

Knowledge - Candidates are knowledgeable of the content and context of the subject they teach.

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Skill - Candidates demonstrate skills in teaching and learning.

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Foster development in all learners.