Admission into the Ph.D. Program

Science Ed. Core courses
- SCI 6140
- SCI 6150
- SCI 6160
- SCI 6180
Obtain 3.5+ GPA

All other required Coursework
- Complete all coursework
- Obtain 3.0+ GPA

Early Research Requirement in conjunction with SCI 6170 or other research project
- Present to MISE
- Present at approved conference
- Submit paper to MISE faculty for approval (*Resubmit ONE TIME if not approved*).
- Submit paper to approved journal

College Teacher of Science

- SCI 6170 – Sci. Ed. Research Traditions (3 Hrs) and
- SCI 6180 – Teaching and Learning in College Science Classroom (3 Hrs) (*Each taken for the second time*)

Science Teacher Educator

- SCI 6170 – Sci. Ed. Research Traditions (3 Hrs) and
- SCI 6260 – Curriculum Studies in Science Education

Comprehensive Critical Literature Review
- Formal Paper
- Formal Presentation

Select Dissertation Advisor w/ program Director’s consent

Form Committee
Select Dissertation Topic
Committee Appointment Form

Complete Dissertation Proposal
- Formal presentation
- Formal Paper

Proposal approved
Candidacy Attained

HSIRB approval if needed

Graduation Auditing

Complete Dissertation Defense
- Formal presentation
- Formal Paper

Revisions Required

Submit One Time back to the Committee & get approval

Dissertation Approval Form

Dissertation Check-in Form

Submission of Electronic Thesis Dissertation (ETD)

Refer to the Graduate College

Graduation

Go to Narrative
Go to Time to Degree

Prepared by Dr. Marianne Di Pierro, Julien Kouamé (The Graduate Center/WMU). Approved by Dr. William Cobern 06/10/2009
1. Admission into the Ph.D. program.
2. Complete Prerequisites if applicable.
3. Start the Ph.D. course work. Take at least 48 hours of graduate work beyond the courses counted toward a Master's Degree. Courses consist of:
   - SCI 6140 - Science: Historical and Philosophical Perspectives Credits: 3 hrs.
   - SCI 6150 - Science Education: Historical and Philosophical Foundations Credits: 3 hrs.
   - SCI 6160 - Science Education: Models of Learning and Teaching Credits: 3 hrs.
   - SCI 6170 - Science Education: Research Traditions Credits: 3 hrs.
   - SCI 6180 - Teaching and Learning in the College Science Classroom Credits: 3 hours
   **AND**
   - SCI 6170 - Science Education: Research Traditions Credits: 3 hrs. **AND**
   - SCI 6180 - Teaching and Learning in the College Science Classroom Credits: 3 hours
   *(Each taken for a second time)*
   - **For The College Teacher of Science Curriculum select:**
   - SCI 6260 - Curriculum Studies in Science Education Credits: 3 hours

4. Complete early research requirements: Comprehensive Critical Literature Review requirements and Dissertation Proposal requirements
5. Meet with the Director of the Program to establish a Dissertation Committee
6. Select a dissertation Topic
7. Oral Presentation of Dissertation Proposal
8. Register for Dissertation Credit (15 hrs of SCI 7300)
9. Complete the Residency enrollment requirement, which includes two consecutive semesters of full-time study on campus. Complete the approved Research Tools by the advisor
10. Candidacy is established after students complete Coursework, Research Tools, CCLR, and a Teaching Experience.
11. HSIRB Approval
12. Collect Data
13. Complete The Graduate College (TGC) forms.
14. Schedule the Defense and apply for the Graduation Audit.
16. Finish the required revisions.
17. Submit back to the Committee & get approval.