

MAPPING GUIDE FOR College of Technology – PhD Degree

	Graduate Student Learning Outcome 1	Graduate Student Learning Outcome 2	Graduate Student Learning Outcome 3	Graduate Student Learning Outcome 4	Graduate Student Learning Outcome 5
<i>Graduate Students of the Purdue University PhD programs will be able to demonstrate the ability:</i>	<u>To identify and conduct original research, scholarship and creative endeavors</u>	<u>To effectively communicate their field of study</u>	<u>To think critically, creatively and solve problems in their field of study</u>	<u>To conduct research in an ethical and responsible manner</u>	<u>To demonstrate attributes of professional development consistent with expectations within their field of study</u>
Complete TECH Seminar for Two Credit Hours	NA	Present results of research via oral or poster presentation at a professional event	NA	NA	Satisfy attendance goals for seminar each semester
Complete Workshop Responsible Conduct of Research	NA	NA	NA	Attend and receive a passing grade in ENTM 612	Attend and receive a passing grade in ENTM 612
Complete PhD Research Credits (699)	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research	Receive a grade of satisfactory on credits associated with the performance of the students research
Prepare Research Proposal	Successfully define and justify a set of research objectives in a formal research proposal for the students degree program	Successfully write a research proposal and defend that proposal in a meeting of their graduate advisory committee	Successfully define a set of research methods and analyses that will achieve the objectives set forth in the research proposal for the students degree program	Successfully provide information in a research proposal outlining how research conforms to the standards for the responsible conduct of research	Successfully write a research proposal and defend that proposal in a meeting of their graduate advisory committee
Complete Written Preliminary Exam	NA	Successfully complete a formal written preliminary exam for Ph.D. candidacy	Successfully complete a formal written preliminary exam for Ph.D. candidacy	Successfully complete a formal written preliminary exam for Ph.D. candidacy	Successfully complete a formal written preliminary exam for Ph.D. candidacy
Complete Oral Preliminary Exam	NA	Successfully complete a formal oral preliminary exam for Ph.D. candidacy	Successfully complete a formal oral preliminary exam for Ph.D. candidacy	NA	Successfully complete a formal oral preliminary exam for Ph.D. candidacy
Hold Annual Meetings of Graduate Advisory Committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee	NA	Demonstrate acceptable progress towards research and Plan-of-Study requirements to graduate advisory committee
Participate in Annual College Symposium	Develop and present an oral or poster for presentation at an annual departmental research symposium	Develop and present an oral or poster for presentation at an annual departmental research symposium	NA	NA	Develop and present an oral or poster for presentation at an annual departmental research symposium

Publish Results of Research, Teaching or Outreach Efforts in Appropriate Outlets	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature	Successfully publish a research, teaching or outreach article in the peer-reviewed literature
Present Results of Research, Teaching or Outreach Efforts at Appropriate Venues	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience	Successfully present a research, teaching or outreach presentation or poster to a professional audience
Exhibit Excellence in Teaching, Research or Outreach	Receive an award for research, teaching or outreach activities	Receive an award for research, teaching or outreach activities	Receive an award for research, teaching or outreach activities	Receive an award for research, teaching or outreach activities	Receive an award for research, teaching or outreach activities
Exhibit Evidence of Leadership Potential	Serve as a reviewer or editor for professional publications or as an external reviewer for funding agencies	Present research, teaching or outreach materials as an invited speaker or in an invited scientific article	File a patent for activities associated with research activities performed	Present or publish materials associated with the responsible conduct of research	Serve as an officer or committee member in a professional society or other organizations related to your field of study
Serve as a Teaching Assistant or Instructor for a Course (Optional)	NA	Successfully prepare and deliver lecture or laboratory material to undergraduate or graduate students	NA	Successfully prepare and deliver lecture or laboratory material to undergraduate or graduate students	Successfully prepare and deliver lecture or laboratory material to undergraduate or graduate students
Attend Professional Workshops (Optional)	Attend a workshop associated with the development and conduct of research	Attend a workshop associated with effective oral or written communication in the classroom or to professional audiences	Attend a workshop associated with the development of critical thinking and/or problem solving skills	Attend a workshop associated with one or more aspects of the responsible conduct of research	Attend a workshop associated with one or more aspects of professional development
Prepare Dissertation	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review	Successfully prepare a dissertation for submission to the students graduate advisory committee for review
Defend Dissertation	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee	Successfully defend a dissertation in a meeting of the students graduate advisory committee