

Standing Requirements

Program Mission Statement

The mission of the Ph.D. program in Human Factors (HF Ph.D.) is to provide an opportunity for highly qualified students, from a variety of backgrounds, including Psychology, Physiology, Life Sciences, and Engineering to pursue a rigorous program of advanced study and to engage in high-quality research, developing new knowledge within the area of Human Factors. Although a relatively new discipline, Human Factors has grown tremendously over the past several decades, both as a discipline and a profession. Highly educated and experienced Human Factors professionals are in great demand. This terminal degree program, housed in the Department of Human Factors in the college of Arts and Sciences, will help the University advance its capability to lead research and education in Human Factors, and produce highly qualified students, well equipped with knowledge and skills for challenges and opportunities in the 21st century.

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Standing Requirements

Program Outcomes

DB_PhD Human Factors Outcome Set

Outcome

Outcome	Mapping
Knowledge of the Human Factors Domain Knowledge of 7 key areas: Human Factors, Sensation/Perception, Memory/Cognition, Research Methods, Statistics, Ergonomics, and Usability. T	DB_PhD Human Factors Outcome Set: Knowledge of the Human Factors Domain
Independent Research The capability to perform research in an independent manner and add to the body of knowledge in the research area.	DB_PhD Human Factors Outcome Set: Independent Research
Oral and Written Presentation Skills The PhD is a research-based degree. In order to show disciplinary competence, PhD students should be presenting and publishing their research.	DB_PhD Human Factors Outcome Set: Oral and Written Presentation Skills
Employment for Degree Completed Students The employment of the degree completed students in terms of Industry, Government, and Academic institutions.	DB_PhD Human Factors Outcome Set: Employment for Degree Completed Students, Independent Research, Knowledge of the Human Factors Domain, Oral and Written Presentation Skills

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DB_PhD Human Factors

HF Ph.D. Map (2018)

Courses and Activities Mapped to DB_PhD Human Factors Outcome Set

	Outcome			
	Knowledge of the Human Factors Domain Knowledge of 7 key areas: Human Factors, Sensation/Perception, Memory/Cognition, Research Methods, Statistics, Ergonomics, and Usability, T	Independent Research The capability to perform research in an independent manner and add to the body of knowledge in the research area.	Oral and Written Presentation Skills The PhD is a research-based degree. In order to show disciplinary competence, PhD students should be presenting and publishing their research.	Employment for Degree Completed Students The employment of the degree completed students in terms of Industry, Government, and Academic institutions.
Courses and Learning Activities				
Qualifying Exam Qualifying Exam	M			
Defense Dissertation Defense	M	M	M	
Proposal Dissertation Proposal	P	P	P	
Research Publications and Presentations			M	
Alumni Alumni Employment				M

Legend : **I** Introduced **P** Practiced **M** Mastered

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HF PhD Yearly Assessment

Courses and Activities Mapped to DB_PhD Human Factors Outcome Set

	Outcome			
	Knowledge of the Human Factors Domain Knowledge of 7 key areas: Human Factors, Sensation/Perception, Memory/Cognition, Research Methods, Statistics, Ergonomics, and Usability, T	Independent Research The capability to perform research in an independent manner and add to the body of knowledge in the research area.	Oral and Written Presentation Skills The PhD is a research-based degree. In order to show disciplinary competence, PhD students should be presenting and publishing their research.	Employment for Degree Completed Students The employment of the degree completed students in terms of Industry, Government, and Academic institutions.
Courses and Learning Activities				
2018-2019 Assessment Cycle	✓	✓	✓	✓
2019-2020 Assessment Cycle	✓	✓	✓	✓

Legend : ✓ = Aligned

2017-2018 Assessment Cycle

Assessment Plan

Measures

DB_PhD Human Factors Outcome Set

Outcome

Outcome: Knowledge of the Human Factors Domain

Knowledge of 7 key areas: Human Factors, Sensation/Perception, Memory/Cognition, Research Methods, Statistics, Ergonomics, and Usability. T

▼ **Measure:** Qualifying Exams
Program level Direct - Student Artifact

Details/Description:	Measured in this outcome will be the number of students taking the test each year, the percentage who pass on the first attempt, the percentage who pass upon second try, and also for those not passing on the first or second attempts, which sections of the exam they failed.
Criterion for Success:	75% of students will pass the exam on their first attempt 100% of students will pass the exam on 2nd attempt
Timeframe of Data Collection:	End of Spring Semester
Key/Responsible Personnel:	Christina Frederick

Outcome: Proposal Defense

The dissertation proposal defense is to occur no more than a year after a students takes the qualifying

exam. Passing the proposal defense is a measure of competence and advancement toward degree completion.

Measurement will record the number and percentage of eligible students who successfully defend their proposal within a year after qualifying exams. We will also note how many eligible students do not meet this deadline and how many additional months it took them to defend their proposals.

▼ **Measure:** Proposal Defense
Program level Direct - Student Artifact

Details/Description:	Measurement will record the number and percentage of eligible students who successfully defend their proposal within a year after qualifying exams. We will also note how many eligible students do not meet this deadline and how many additional months it took them to defend their proposals.
Criterion for Success:	75% of students will meet this milestone.
Timeframe of Data Collection:	End of Spring Semester
Key/Responsible Personnel:	Christina Frederick

Outcome: Research Productivity

The PhD is a research-based degree. In order to show disciplinary competence, PhD students should be presenting and publishing their research.

The following variables will be measured:

1. Number of PhD students in program and what percentage of them presented papers at regional, national and international conferences and/or published in peer-reviewed journal, conference proceedings or wrote book chapters.
2. Variables listed in 1. will be broken out for each yearly student cohort within the PhD program.
3. We will also indicate the number of publications and presentations listed in Number 1. on which a student was the first author.
4. Any other student research awards will be documented, such as best student research paper at a national or international conference.

▼ **Measure:** Research Productivity
Program level Direct - Student Artifact

Details/Description:

1. Number of publications, presentations, book chapters and other scholarly artifacts will be tallied and presented across all students.
2. Number of PhD students in program and what percentage of them presented papers at regional, national and international conferences and/or published in peer-reviewed journals, conference proceedings or wrote book chapters.
3. Variables listed in 2. will be broken out for each yearly student cohort within the PhD program. The expectation is that students in years 3-5 of the program will be more research active than students in years 1-2.
4. We will also indicate the number of publications and presentations listed in Number 1. on which a student was the first author.
5. Any other student research awards will be documented, such as best student research paper at a national or international conference.

Criterion for Success:

100% of all PhD students across all years will present at a regional, national or international conference each year.

100% of students in year 2 and beyond will be an author on a paper in a peer-reviewed journal or as part of a conference proceedings each year.

By year 4 of the program, 50% of students will have published a book chapter or engaged in another alternative form of scholarship (e.g. monograph, invited lecture or speech, paper competition).

By year 3 of the program, 100% of PhD students will be first author on a journal publication or a conference proceedings paper.

We will also document students awards as evidence of research excellence by our students.

Timeframe of Data
Collection:

End of Spring Semester

Key/Responsible
Personnel:

Christina Frederick, PhD Program Coordinator

Outcome: Dissertation Defense

Defending one's dissertation and passing the defense is the final hurdle in a PhD's student's education. Passing the defense identifies that the student has sufficient knowledge and expertise to enter the discipline in a professional level.

This outcome will measure each year the number of students who pass their dissertation defense on the first try, as well as how long it took to complete the dissertation after the proposal was defended. For those requiring a second defense, length of time to complete will also be noted, as well as the outcome (success or failure) of the second attempt.

Marked obsolete by Elizabeth Blickensderfer on 09/07/2018 2:33:50 pm EDT

▼ **Measure:** Dissertation Defense
Program level Direct - Student Artifact

Details/Description:

Measured in this outcome will be the number of students who pass their defense on the first try, and how long it took for the student to complete from proposal defense to successful final defense.

If the student requires a second defense, the time to complete will be captured as well as the outcome of the second attempt.

Criterion for Success:

90% of students will pass the dissertation defense on the first attempt.

100% will pass on the second attempt.

Students will take no longer than 24 months to complete their dissertation, from proposal defense to completion. 80% of students will achieve this outcome.

For students requiring a second defense attempt, it will occur no more than 6 months after the first attempt.

Timeframe of Data
Collection:
Key/Responsible
Personnel:

Spring Semester

Christina Frederick

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