

M.S. in Human Factors

Worldwide Program Requirements

Core Requirements	21
Option	9-12
Total Credits	30-33

Program Details

The Master of Science in Human Factors requires successful completion of a minimum of 30 credit hours for the Culminating Research Experience (CRE) option or 33 credit hours for the Thesis option. Students enrolled in the Worldwide Graduate Online program may complete the degree in six terms, or approximately two years, assuming full-time enrollment and continuous progress. Students pursuing this graduate degree must earn a minimum cumulative grade point average (CGPA) of 3.00 for all work completed at the University. The courses required to earn this degree are listed below.

Students should be aware that many courses have prerequisites and/or corequisites. Students are responsible for ensuring that all prerequisite and degree requirements are satisfied prior to enrollment in advanced coursework. The suggested plan of study is provided as a guide. A student's actual plan of study may vary based on term of admission, course availability, transfer credit, and other academic considerations. Students should consult with their academic advisor to develop an individualized plan of study.

Students may complete either the 30-credit Culminating Research Experience (CRE) option or the 33-credit Thesis option. Students interested in the Thesis option should consult with their academic advisor to ensure appropriate planning, sequencing of thesis coursework, and fulfillment of all thesis requirements.

Core Requirements

HFCT 606	Human Cognition	3
HFCT 612	Human Performance, Limitation, and Error	3
HFCT 621	Human Factors in Virtual and Simulated Environments	3
HFCT 624	Ergonomics and Biomechanics	3
HFCT 640	Human Physiology and Adaptation	3
HFCT 641	Systems Psychology	3
HFCT 647	Human Factors in Complex Systems	3
Total Credits		21

Cumulative Research Experience Option

HFCT 653	Cognitive Systems Engineering	3
HFCT 691	Culminating Research Experience	3
RSCH 650	Research Methods and Analysis *	3
Total Credits		9

Thesis Option

RSCH 665	Statistical Analysis	3
RSCH 670	Research Methods	3
HFCT 700A	Graduate Thesis I	3
HFCT 700B	Graduate Thesis II	3
Total Credits		12

* RSCH 650 must be taken as the last course for CRE students

Suggested Plan of Study

Two Year Plan - Thesis Option

Year One

Requirements	Credits
HFCT 606 - Human Cognition	3
Semester Hours	3

Requirements	Credits
HFCT 612 - Human Performance, Limitation, and Error	3
Semester Hours	3

Requirements	Credits
HFCT 640 - Human Physiology and Adaptation	3
Semester Hours	3

Requirements	Credits
HFCT 621 - Human Factors in Virtual and Simulated Environments	3
Semester Hours	3

Requirements	Credits
RSCH 665 - Statistical Analysis	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 15

Year Two

Requirements	Credits
HFCT 624 - Ergonomics and Biomechanics	3
Semester Hours	3

Requirements	Credits
RSCH 670 - Research Methods	3
Semester Hours	3

Requirements	Credits
HFCT 641 - Systems Psychology	3
Semester Hours	3

Requirements	Credits
HFCT 647 - Human Factors in Complex Systems	3
Semester Hours	3

Requirements	Credits
HFCT 700A - Graduate Thesis I	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 15

Year Three

Requirements	Credits
HFCT 700B - Graduate Thesis II	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 3

One Year Plan - Thesis Option

Year One

Requirements	Credits
HFCT 606 - Human Cognition	3
RSCH 665 - Statistical Analysis	3
Semester Hours	6

Requirements	Credits
HFCT 612 - Human Performance, Limitation, and Error	3
RSCH 670 - Research Methods	3
Semester Hours	6

Requirements	Credits
HFCT 621 - Human Factors in Virtual and Simulated Environments	3
HFCT 624 - Ergonomics and Biomechanics	3
Semester Hours	6

Requirements	Credits
HFCT 640 - Human Physiology and Adaptation	3
HFCT 641 - Systems Psychology	3
Semester Hours	6

Requirements	Credits
HFCT 647 - Human Factors in Complex Systems	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 27

Year Two

Requirements	Credits
HFCT 700A - Graduate Thesis I	3
Semester Hours	3

Requirements	Credits
HFCT 700B - Graduate Thesis II	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 6

Two Year Plan - Culminating Research Experience

Year One

Requirements	Credits
HFCT 606 - Human Cognition	3
Semester Hours	3

Requirements	Credits
HFCT 612 - Human Performance, Limitation, and Error	3
Semester Hours	3

Requirements	Credits
HFCT 640 - Human Physiology and Adaptation	3
Semester Hours	3

Requirements	Credits
HFCT 621 - Human Factors in Virtual and Simulated Environments	3
Semester Hours	3

Requirements	Credits
RSCH 650 - Research Methods and Analysis	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 15

Year Two

Requirements	Credits
HFCT 624 - Ergonomics and Biomechanics	3
Semester Hours	3

Requirements	Credits
HFCT 641 - Systems Psychology	3
Semester Hours	3

Requirements	Credits
HFCT 647 - Human Factors in Complex Systems	3
Semester Hours	3

Requirements	Credits
HFCT 653 - Cognitive Systems Engineering	3
Semester Hours	3

Requirements	Credits
HFCT 691 - Culminating Research Experience	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 15

One Year Plan - Culminating Research Experience

Year One

Requirements	Credits
HFCT 606 - Human Cognition	3
RSCH 650 - Research Methods and Analysis	3
Semester Hours	6

Requirements	Credits
HFCT 612 - Human Performance, Limitation, and Error	3
HFCT 624 - Ergonomics and Biomechanics	3
Semester Hours	6

Requirements	Credits
HFCT 621 - Human Factors in Virtual and Simulated Environments	3
HFCT 640 - Human Physiology and Adaptation	3
Semester Hours	6

Requirements	Credits
HFCT 641 - Systems Psychology	3
HFCT 647 - Human Factors in Complex Systems	3
Semester Hours	6

Requirements	Credits
HFCT 653 - Cognitive Systems Engineering	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 27

Year Two

Requirements	Credits
HFCT 691 - Culminating Research Experience	3
Semester Hours	3

Total Credits

Total Hours for All Requirements: 3

Estimated Cost of Attendance

Estimated Cost of Attendance: California Student Information (<https://catalog.erau.edu/student-life/student-affairs/california-student/>)