GEOGRAPHICAL SCIENCES, DOCTOR OF PHILOSOPHY (PH.D.)

For those entering with a Master's degree in Geography, the PhD should be completed withing 4 years; For those entering with a Bachelor's or without a Geography background, the PhD should be completed within 5 years. Part-time study takes longer, but at least 1 year full-time attendance is required. Students entering with a B.A. or without a Geography background will take one course each in the following areas: Human, Physical, and Methods. See the PhD Handbook (https://geog.umd.edu/graduate/phdhandbooks/) for further details.

Students without a Geography background should complete an additional 9 credits in the following areas:

- Environmental and Biological Aspects of Earth Systems Science,
- Human Dimensions of Global Change, and
- Geospatial Information Sciences.

Advance to Candidacy: In addition to course requirements, students must successfully pass an annual faculty review, a portfolio assessment, and successfully defend a dissertation prospectus.

Post-Candidacy: In addition to annual faculty reviews, students complete at least 12 credits of GEOG899 Doctoral Dissertation Research as well as successfully defend and submit an original dissertation.

Course	Title	Credits
Required courses:		
GEOG601	The Nature and Practice of Science	3
GEOG606	Quantitative Spatial Analysis	3
or GEOG636	Qualitative Methods in Geography	
GEOG608	Comprehensive Portfolio Assessment Summary	1-3
GEOG788	Selected Topics in Geography (GEOG788D - Selected Topics in Geography)	3
GEOG798	Selected Topics in Geography: Seminar Series	2
Pass a portfolio assessment		
Dissertation Research Requirements		
GEOG899	Doctoral Dissertation Research	12
Total Credits		**24-26**