

phd-cd

Doctor of Philosophy in Computational Design



Research

48-727 Inquiry into CD (9)	48792 PhD Indep. Study (6-24)	48792 PhD Indep. Study (18-36)	48792 PhD Indep. Study (18-36)	48797 PhD Dissert. Defense (6-36)
48-620 Situating Research (3)*	Approved methods course (9-12)		48811 Proposal Preparation (6-12)	
48-788 CD Proseminar (6)*				

Computation

Computation course/s (9-24)	Computation course/s (9-24)
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CD Core Selective

CD Core Selective/s (9-24)	Core Selective/s (9-24)
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Electives

Elective/s (no minimum units)	Electives (no minimum units)
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The Program

The Doctor of Philosophy in Computational Design prepares students for careers as leading educators, scholars, and researchers in academia and industry. The program offers students the opportunity to conduct research that explores Computational Design questions in technical and critical depth, resulting in novel and original contributions to knowledge in the field.

Students work closely with their advisors throughout all stages of the program. Advisors are responsible for supervising and offering guidance, including working with students in the formulation of an individual plan of

studies that supports both technical and conceptual elements of the student's chosen area of concentration. Advisory committees in the doctoral program in CD must be chaired by a CD Core Faculty member, and must include one external member. External advisors might be at a different Carnegie Mellon University department, at a different institution, or in industry.

The program's curriculum is organized in four categories. **Research** courses help students explore Computational Design as an arena of research and practice, and introduce the methods needed for the formulation of research projects that contribute to knowledge

in the field. These include seminars and independent studies in preparation for the PhD milestones (see next page), plus an advisor-approved methods course that aligns the students' area of concentration. **CD Core Selectives** are courses taught by CD core faculty, as well as approved extra-departmental courses, selected to align with students' specific interests. Note: Independent studies with CD advising faculty can count towards CD Core Selectives. **Computation** courses give students the opportunity to build advanced computational skills. The precise choice and sequence of these courses is discussed with advisors and approved by the ad-

visory committee at the game plan stage. The sequence should lead to advanced technical proficiency in the students' area of concentration. 15-122 or an advisor-approved alternative should be included in this sequence. Finally, students are encouraged to take university **Electives** to explore CMU's vast course offerings.

Students with prior relevant coursework and qualifications might request the approval of an adjusted timeline to be evaluated by their advisor and approved by the CD faculty committee.

PhD-CD Faculty Advisors

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