D.S. in Information and Interaction Design

This 48-credit program requires:

Core Courses (12 credits)
- Interaction and Interface Design (IDIA 612)
- Humans, Computers and Cognition (IDIA 640)
- Proseminar (IDIA 810)
- Methods for User Research (IDIA 842)

Working with a doctoral adviser, you will choose appropriate graduate-level courses to fulfill the following course, special topics and project requirements.

Practical Skills Courses (9 credits)
Choose three advanced courses from the following areas. One of these courses must be IDIA 616: Designing for Mobile Web, IDIA 618: Dynamic Websites or IDIA 619: Interactive Multimedia.
- Graphic Design/Videography
  - Typography I (PBDS 615)
  - Information Design (PBDS 647)
  - Motion Graphics for Interactive Media (PBDS 670)
- Interaction and Information Design
  - Designing for Mobile Web (IDIA 616)
  - Dynamic Web Sites (IDIA 618)
  - Interactive Multimedia (IDIA 619)
  - Information Architecture (IDIA 630)
  - Topics in Advanced Information Architecture (IDIA 730)
  - Databases (INSS 651)

Areas of Focus (9 credits)
Select three courses from one of the following areas:
- Government/Public-Sector Applications
  - Innovations in Public Management (PUAD 625)
  - Information Resource Management (PUAD 626)
  - Public Information Management: Organizational and Policy Issues (PUAD 780)
  - Information Technology: Public-Sector Applications (PUAD 781)
  - Business Process Re-engineering in the Public Sector (PUAD 789)
  - Advanced Information Resource Management (PUAD 812)*
    * course requires completion of a prerequisite course
- Interaction Design for New Media
  - Sequential Visualization and Analysis (IDIA 614)
  - Social Media for Organizations (IDIA 622)
  - Topics in Advanced Interaction Design (IDIA 712)
  - Advanced Information Architecture (IDIA 730)
- Design-Business Link (PBDS 670)
- Writing for Digital Environments (PBDS 792)
- **Educational Applications (offered at Towson University)**
  - Web-based Instruction in Education (ISTC 605)*
  - Theory & Design of Computer-based Instruction (ISTC 635)*
  - Multimedia Design (ISTC 655)
  - Applied Psychology of Learning (ISTC 663)*
  - Instructional Development (ISTC 667)*
  - Computer-based Instruction (ISTC 687)*
  - Theory & Design of Computer-based Instruction (ISTC 689)*
  * ISTC 541: Foundations in Instructional Technology is the prerequisite for most of the courses at Towson. This course does **not** count toward the 48 credits required for the D.S. degree.

- **User Research**
  - Research Methods for Interaction Design (IDIA 642)
  - Topics in Advanced User Research (IDIA 742)
  - The Biological Basis of Behavior (APPL 601)
  - Learning and Cognition (APPL 603)
  - Intermediate Statistics for the Behavioral Sciences (APPL 631)
  - Research Methods for Applied Psychology (APPL 632)

  Electives (6 credits)

  Project-Related Work (12 credits)

- D.S. Project, **12 credits** (IDIA 899)