

UNH Curriculum Change Form

APPROVAL FOR:	Course <u>or</u> Program Title Data Visualization.....	Page 1
	Course <u>or</u> Worksheet Number ...GRDE 22xx.....	
	For program, state whether PhD, MS, MA, Grad Certificate, BS, BA, AS, Minor, Concentration, or UG Certificate.....	
	Administrative Unit Department of Art and Design.....	
	Proposing Faculty Member, Name Matthew Solomon.....	Tel 203.479.4270..... Email msolomon@newhaven.edu...
	Administrative Unit Vote For	Against Other Date November 2013

<u>Approved by</u>	<u>Signature</u>	<u>Date</u>
Administrative Unit ¹
College-Level Curriculum Committee
Dean
University UG, or G Curriculum Committee ²
Faculty Senate ³
Provost

1 Prior to submitting this form the proposing unit should discuss these changes with all other units that may be affected by the changes. The earlier this is done in the process the better. However, all members of the faculty will be advised by email of these proposed changes when they are put on the University UG or G Curriculum Committee agenda. The proposing faculty member shall keep a list of departments/units likely to be affected and the date of contact and the response of each, which response must be submitted within two weeks. All negatively affected units can bring their concerns to the attention of the proposing unit and/or any of the approving bodies.

2 The UUCC/UGCC and Senate may request B&F review for changes above about \$5k.

3 In the case that the senate determines that changes need to be made to the proposal, the proposal will be referred back to the appropriate University Curriculum Committee for consideration of the suggested changes.

This form is for UNH approval only. For other approvals, such as professional accreditation, applications to CT DHE, or approvals for out of state delivery, seek guidance from the University Accreditation Officer.

An administrative unit does not need to obtain formal approval for those changes to catalog copy that are consistent with an already approved course or program description and that leave the original name and number unchanged.

Suggested use of this form:

- Make an electronic copy of this document.
- Identify one section, A, B, C, D, or E from page 2, that you will use.
- Insert requested information into that one section.
- Complete the heading boxes.
- Email this application to the reviewing bodies in the above sequence.
- Print out one copy of page 1 for signatures.

If needed, complete separate two page applications for other actions.

Complete only one of the sections A, B, C, D, or E

A) For CHANGES to an EXISTING COURSE, provide:

- Proposed changes, and reasons for the changes. This will be emailed to the faculty by UUCC/UGC

B) For a NEW COURSE, provide:

- Proposed Catalog Copy (Title, prerequisites and co-requisites, course description, supplementary fees, and the number of Semester or Trimester Credit Hours), and an explanation of the need for the course.
This will be emailed to the faculty by UUCC/UGC
- Syllabus (Course Learning Objectives and Outcomes, Gen. Ed. competencies satisfied by this course for which approval is sought, Content Outline, Recommended evaluation procedure, Grading System (A-F or Satisfactory/Unsatisfactory), Suggested Textbooks)
- List of faculty members prepared to teach this course; identify full time and part time
- Budget Impact Statement with descriptions of all new facilities, resources, and/or faculty needed
- List of programs in which this course will be required
- List of programs in which this course will be a restricted elective
If the only change proposed for any of the above programs is the direct substitution of this new course for a previously listed course, or the simple addition of this one new course, then attach the old and new worksheets to this application, highlight the change on the new worksheet and show the new credit totals. The UUCC/UGC will consider those changes as part of this one application. For larger changes to programs follow C or D.

C) For PROGRAM PROPOSALS THAT REQUIRE SUBSEQUENT DHE APPROVAL, provide:

- Proposed catalog description of the new or changed program, a description of any proposed changes, and an explanation of the need for the program or changes. This will be emailed to the faculty by UUCC/UGC
- The appropriate DHE Application, (check with the University Accreditation Officer for current DHE requirements). The following is a 2007 list of changes and appropriate DHE Tabs.

o NEW PROGRAM (including a degree or certificate);	DHE Tab 1
o EXISTING PROGRAM offered at a NEW LOCATION not on main campus;	DHE Tab 3
o NEW UG MINOR of more than 18 credit hours;	DHE Tab 4
o NEW UG OPTION OR CERTIFICATE of more than 15 credit hours;	DHE Tab 4
o NEW GRAD OPTION OR CERTIFICATE of more than 12 credit hours;	DHE Tab 4
o NEW UG CERTIFICATE of more than 29 credit hours within an existing program;	DHE Tab 4
o CHANGE IN THE TITLE of the program;	DHE Tab 4
o CHANGE AMOUNTING TO MORE THAN ONE THIRD OF THE MAJOR AND COLLEGE REQUIREMENTS as already approved by DHE;	DHE Tab 4
o CHANGE TO "AT LEAST HALF THE DEGREE AVAILABLE ONLINE";	DHE Tab 4
- Old program worksheet (if one exists)
- Budget Impact Statement with descriptions of all new facilities, resources, and/or faculty needed (if not provided as part of DHE Application)

D) For CHANGES to an EXISTING PROGRAM, which DO NOT NEED DHE APPROVAL, provide:

- Proposed changes, reasons for the changes, and the proposed new catalog description of the program.
This will be emailed to the faculty by UUCC/UGC
- New and Old program worksheets
- Credit Totals for Gen. Ed., Required Program Core (MR designation), Program Concentration Requirements
- Budget Impact Statement with descriptions of all new facilities, resources, and/or faculty needed

E) For CHANGES affecting MULTIPLE COURSES or PROGRAMS, provide:

- The proposed changes, listing all the courses or programs subject to the changes, and the reasons for the changes.
This will be emailed to the faculty by UUCC/UGC
- All new and old worksheets (for program changes)
- Budget Impact Statement with descriptions of all new facilities, resources, and/or faculty needed
- The appropriate DHE applications as listed in section C (if needed)

GRDE 13xx Data Visualization

B) New Course

1. Proposed catalog copy and explanation of the need for the course.

Prerequisites: GRDE, Typography 2. The information age is primarily characterized by a fundamental shift in all aspects of human society (social, political, and economic) from one based on the manipulation of materials to one based on the manipulation of information. The increasing challenge confronting us today is not how to obtain more information but how to control and manage such information. Designers are called upon and are obligated to act as messengers and mediators to translate data into information.

This class will involve students in the various conversations, readings, methodologies, and techniques used in the world of data visualization and information design. This class will take a broad approach towards information design using the fundamental principles of graphic design and typography as the basis of exploration. Projects will focus on the precise, clear, and aesthetic representation of quantitative and qualitative data that addresses human factors to convey meaningful messages and information.

Laboratory Fee; 3 Credit Hours

Need for the course

This course touches upon aspects of graphic design including data collection, data analysis, production and design process. Students must mentally process complex information and explore different mediums to display that information.

2) Syllabus

Course Learning Objectives:

Upon successful completion of the course, students will have demonstrated the following:

- a.) Clarify and transform data into information
- b.) Present quantitative and qualitative information in a graphical manner
- c.) Conceptualize and implement a team-based project based using observation skills and design research methods-Solidify presentation and critique skills
- d.) Critically address their own reflexive design practice

Student Outcomes:

The following course outcomes indicate competencies and measurable skills that students develop as a result of completing this course:

Students will submit a portfolio of completed projects
Students will participate in mid-semester and final oral critiques

Gen. Ed. competencies satisfied by this course for which approval is sought:

N/A

Content Outline:

Weeks 1-5

Section 1: Charts, Tables and Typography

Lecture, Discussion, Tutorials & Demonstration: Topics include experiments with data visualization, displaying numerical data in grids, reviewing history of data analysis and visual systems for information

Studio Projects

Students will be given content for design and layout. Projects will consist of books, posters and/or screen based mediums. Reflective writing component vocabulary pertaining to the field of DV. Presentations will be created by students

Weeks 5-10

Section 2: Storytelling & Time

Lecture, Discussion, Tutorials & Demonstration

Students will be given weekly lectures in the form of tutorials and presentations
Students will complete required readings from provided texts (course textbook along with provided online readings)

Studio Projects

Utilizing a combination of multimedia including motion graphics, stop-motion animation and computer programming, students will create type-in-motion projects to tell narratives

Weeks 10-15

Section 3: Mapping and Wayfinding

Students will participate in a collaborative assignment that considers type in space.

Lecture, Discussion, Tutorials & Demonstration

Drawing from contemporary and progressive designers, students will create their own installations by exploring existing wayfinding systems and altering to make more logical experiences.

Recommended Evaluation Procedure

50% Assignments (projects)

20% Demonstrated Design Process, Experimentation and Revision

20% Readings & Research

10% Class participation & collaboration efforts

Grading System

A-F

Suggested Textbook

Envisioning Information Edward Tufte, Graphics Press, 1990

3. Faculty Prepared to Teach this Course

Matt Solomon, Assistant Professor

4. Budget Impact Statement

N/A

5. List of Programs in which this course will be required

Graphic Design (105, 118)

6. List of Programs in which this course will be a restricted elective

N/A