# Design and Public Health, BS (Boston)

The Bachelor of Science in Design Studies and Public Health offers an interdisciplinary approach to public health services, communication, and the built environment. Students combine courses from public health, social sciences, architecture, and urban studies to learn how to apply creative thinking to complex issues in healthcare, community health, and health systems. The interdisciplinary curriculum is enhanced by experiential learning opportunities and is designed to prepare students for challenging careers that involve health-oriented design and planning, public health advocacy, architecture and planning consultancy, health communications, developing strategies for promoting access to healthcare services, and specific applications such as disease awareness and prevention.

## Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

## Universitywide Requirements

All undergraduate students are required to complete the Universitywide Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/).

## NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/nupath/).

## Design Requirements

| Code | Title | Hours |
| --- | --- | --- |
| **Required Courses** | | |
| ARCH 1110 | Fundamental Architectural Representation | 4 |
| ARTF 1220 | Elements of Visual Composition | 2 |
| ARTF 1250 and ARTF 1251 | Designing Interactive Experiences and Designing Interactive Experiences Tools | 2 |
| ARTG 1001 and ARTG 1002 or ARCH 1450 | Design Perspectives: An Introduction to Design in the World and Seminar for Design Perspectives Understanding Design | 4 |
| ARTG 1270 and ARTG 1271 | Design: Process + Practices and Studio for Design: Process + Practices | 4 |

## Concentrations

Complete one of the following concentrations:

- Built Environment (p. 1)
- Integrated Design (p. 2)

### CONCENTRATION IN BUILT ENVIRONMENT

| Code | Title | Hours |
| --- | --- | --- |
| **Required Courses** | | |
| ARCH 1120 | Fundamental Architectural Design | 6 |
| ARCH 1310 | Buildings and Cities, A Global History | 4 |
| ARCH 2260 | Introduction to Building Systems | 4 |
| **Electives** | | |
| Complete four of the following: | | 16-22 |
| ARCH 1453 | Designing the American City: Civic Aspirations and Urban Form | |
| ARCH 2130 | Site, Space, Program | |
| ARCH 2140 | Urban Housing | |
| ARCH 2340 and ARCH 2341 | Modern Architecture and Recitation for ARCH 2340 | |
| ARCH 3170 | Architecture, Infrastructure, and the City | |
| ARCH 3210 | Environmental Systems | |
| ARCH 4850 | Urban and Architectural History Abroad | |
| ARCH 5115 | Option Studio | |

| | | |
|---|---|---|
| ARCH 5310 | Design Tactics and Operations | |
| LARC 2130 | Sustainable Urban Site Design | |
| LARC 2140 | Designed Urban Ecologies | |
| LARC 2330 | Cities, Landscape, and Modern Culture | |
| LARC 2340 | Cities, Landscape, and Contemporary Culture | |
| LARC 2430 | Plants, People, and Landscape Change | |

## CONCENTRATION IN INTEGRATED DESIGN

| Code | Title | Hours |
|---|---|---|
| **Art+Design Fundamentals** | | |
| Complete 4 semester hours from the following: | | 4 |
| ARTF 1200 | Representational Drawing | |
| ARTF 1210 | Abstract Drawing | |
| ARTF 1230 and ARTF 1231 | Making with Form and Materials and Making with Form and Materials Tools | |
| ARTF 1240 and ARTF 1241 | Making with Video, Sound, and Animation and Making with Video, Sound, and Animation Tools | |
| **Required Course** | | |
| ARTG 1290 and ARTG 1291 | Typographic Systems and Studio for Typographic Systems | 4 |
| **Design Electives** | | |
| Complete 12 semester hours from the following: | | 12 |
| ARTG 2262 and ARTG 2263 | Prototyping with Code and Lab for ARTG 2262 | |
| ARTG 5000 | Topics in Design [1] | |
| ARTG 5710 | Design for Dignity | |
| **Art+Design History Elective** | | |
| Complete 4 semester hours of ARTH courses. | | 4 |
| **Design Options** | | |
| As part of the design concentration, complete one of the following sets: | | 8-9 |
| *Creative Fabrication* | | |
| ARTG 2810 | Creative Fabrication Design Principles | |
| ARTG 3810 | Topics in Creative Fabrication Inquiry | |
| *Experience Design* | | |
| ARTG 3462 | Experience Design Principles | |
| ARTG 3464 | Topics In Experience Design Inquiry | |
| *Graphic Design* | | |
| ARTG 2252 | Graphic Design Principles | |
| ARTG 3452 | Topics In Graphic Design Inquiry | |
| *Information Design* | | |
| ARTG 2242 | Information Design Principles | |
| ARTG 3444 | Topics in Information Design Inquiry | |
| *Interaction Design* | | |
| ARTG 2400 and ARTG 2401 | Interaction Design Principles and Interaction Design Principles Tools | |
| ARTG 3400 | Topics In Interaction Design Inquiry | |

[1]   Topics in Design (ARTG 5000) may be completed multiple times as part of satisfying the design electives section.

## Public Health Requirements

| Code | Title | Hours |
|---|---|---|
| **Public Health Core** | | |
| PHTH 1260 or PHTH 1261 | The American Healthcare System Comparative Healthcare Systems | 4 |
| PHTH 2210 | Foundations of Biostatistics | 4 |

| PHTH 2300 | Communication Skills for the Health Professions | 4 |
| or PHTH 2301 | Communication Skills for the Health Professions—Global | |
| PHTH 2350 | Community and Public Health | 4 |
| or PHTH 2351 | Community and Public Health - Global | |
| PHTH 2515 | Healthcare Policy and Administration | 4 |
| PHTH 4120 | Global Perspectives on Discrimination and Health | 4 |
| PHTH 4202 | Principles of Epidemiology in Medicine and Public Health | 4 |
| PHTH 4540 | Health Education and Program Planning | 4 |
| **Science Core Requirement** | | |
| PSYC 1101 | Foundations of Psychology | 4 |
| *Biology* | | |
| Complete one of the following options: | | 8-10 |
| Option 1 | | |
| BIOL 1141 | Microbes and Society | |
| or BIOL 1143 | Biology and Society | |
| BIOL 1147 | The Human Organism | |
| Option 2 | | |
| BIOL 1111 and BIOL 1112 | General Biology 1 and Lab for BIOL 1111 | |
| BIOL 1113 and BIOL 1114 | General Biology 2 and Lab for BIOL 1113 | |
| **Public Health Social Science Requirements** | | |
| *Introductory Course* | | |
| Complete 4 semester hours from the following: | | 4 |
| ANTH 1101 | Peoples and Cultures | |
| ECON 1115 and ECON 1125 | Principles of Macroeconomics and Recitation for ECON 1115 | |
| ECON 1116 and ECON 1126 | Principles of Microeconomics and Recitation for ECON 1116 | |
| ENGL 1300 | Introduction to Health and Humanities | |
| HUSV 1101 | Social Change and Human Services | |
| INTL 1101 | Globalization and International Affairs | |
| PHIL 1101 | Introduction to Philosophy | |
| POLS 1160 | International Relations | |
| SOCL 1101 | Introduction to Sociology | |
| *Upper-Level Course* | | |
| Complete 3-4 semester hours from the following: | | 3-4 |
| Society and Behavior | | |
| ANTH 3441 | Medical Anthropology | |
| CRIM 3040 | Psychology of Crime | |
| HLTH 5280 | The (in)Visibility of (dis)Ability in Society | |
| PHTH 5222 | Health Advocacy | |
| PSYC 3402 | Social Psychology | |
| PSYC 3404 | Developmental Psychology | |
| PSYC 3450 | Learning and Motivation | |
| SOCL 3241 | Violence and Society | |
| SOCL 3441 | Sociology of Health and Illness | |
| SOCL 4520 | Race, Class, and Gender | |
| Globalization and Global Health | | |
| AFCS 3424 | Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora | |
| ECON 3404 | International Food Policy | |
| INTL 3200 | Cities in a Global Context | |
| INTL 3201 | Cities in a Global Context (Abroad) | |

| Code | Title |
|---|---|
| INTL 3400 | International Conflict and Negotiation |
| POLS 3487 | Politics of Developing Nations |
| **Environmental Health and Climate Change** | |
| ECON 3423 | Environmental Economics |
| INTL 5100 | Climate and Development |
| PPUA 5100 | Climate and Development |
| PPUA 5238 | Climate Change and Global Urbanization |
| **Law, Policy, and Human Rights** | |
| ECON 3424 | Law and Economics |
| PHIL 5001 | Global Justice |
| PHIL 5002 | Ethics and Public Policy |
| POLS 3307 | Public Policy and Administration |
| **Healthcare Administration and Management** | |
| ECON 3413 | Health Economics and Healthcare Policy |
| MGMT 3340 | Healthcare Management, Innovation, and Design |
| ORGB 3201 | Organizational Behavior |
| PHTH 4511 | Healthcare Management |
| PHTH 5232 | Evaluating Healthcare Quality |
| PHTH 5234 | Economic Perspectives on Health Policy |

## Supporting Course Requirements

| Code | Title | Hours |
|---|---|---|
| **Introduction to College** | | |
| Complete 1 semester hour from the following: | | 1 |
| ARCH 1000 | Architecture at Northeastern | |
| ARTF 1000 | Art and Design at Northeastern | |
| HSCI 1000 | College: An Introduction | |
| **Co-Op Preparation** | | |
| Complete 1 semester hour from the following: | | 1 |
| EEAM 2000 | Professional Development for Co-op | |
| HSCI 2000 | Professional Development for Bouvé Co-op | |
| **Writing Courses** | | |
| ENGW 1111 | First-Year Writing | 4 |
| *Advanced Writing in the Disciplines* | | |
| Complete 4 semester hours from the following: | | 4 |
| ENGW 3306 | Advanced Writing in the Health Professions | |
| ENGW 3314 | Advanced Writing in the Arts, Media, and Design | |

## Capstone and Integrative Course

| Code | Title | Hours |
|---|---|---|
| Complete 4 semester hours from the following: | | 4 |
| ARTG 4550 | Design Degree Project | |
| ARCH 4960 | Architectural Studies Capstone | |
| ARCH 5312 | Mapping and Building Health | |
| HSCI 4970 and HSCI 4971 | Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2 [1] | |

[1]    Junior/Senior Honors Project 1 (HSCI 4970) will count as a 4-semester-hour general elective.

## Design Grade Requirement

No more than two grades below a C in ARTG and ARCH courses may be used to fulfill degree requirements.

## Optional Co-op

Students can choose to complete one or two six-month co-op experiences, or none at all, during their course of study. Students must consult with their advisor regarding the prerequisite course for co-op.

## Public Health Grade Requirement

A grade of C or higher is required for the public health core, science requirement, public health social science requirement, and the HSCI capstone course. Students who take College: An Introduction (HSCI 1000) andProfessional Development for Bouvé Co-op (HSCI 2000) must achieve a C or higher.

## NUpath Requirements Satisfied

- Advanced Writing in the Disciplines
- Analyzing and Using Data
- Conducting Formal and Quantitative Reasoning
- Demonstrating Thought and Action in a Capstone
- Engaging Differences and Diversity
- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Interpreting Culture
- Understanding Societies and Institutions
- Writing in the First Year
- Writing-Intensive in the Major

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

## Program Requirement

128 total semester hours required

## Plan of Study
## Sample Plans of Study

The following plans of study are samples. Since program length, co-op cycles, and concentrations may vary, students should consult with their academic advisor to create an individualized plan of study.

### FOUR YEARS, ONE CO-OP IN FALL, BUILT ENVIRONMENT CONCENTRATION

**Year 1**

| Fall | Hours | Spring | Hours | Summer 1 | Hours |
|---|---|---|---|---|---|
| ARCH 1000, HSCI 1000, or ARTF 1000 | 1 | ARCH 1110 | 4 | PHTH 2300 | 4 |
| PHTH 1260 | 4 | ARTF 1220 | 2 | General elective | 4 |
| PSYC 1101 | 4 | ARTF 1250 and ARTF 1251 | 2 | | |
| ARCH 1450 | 4 | ENGW 1111 | 4 | | |
| BIOL option course 1 | 4-5 | BIOL option course 2 | 4-5 | | |
| | | EEAM 2000 (for CAMD students) | 1 | | |
| | **17-18** | | **17-18** | | **8** |

**Year 2**

| Fall | Hours | Spring | Hours | Summer 1 | Hours |
|---|---|---|---|---|---|
| PHTH 2210 | 4 | HSCI 2000 (for Bouve students) | 1 | ARCH 1310 | 4 |
| ARCH 1120 | 6 | PHTH 2515 | 4 | General elective | 4 |
| ARCH 2260 | 4 | ARTG 1270 and ARTG 1271 | 4 | | |
| PHTH 2350 | 4 | Concentration elective 1 | 4-6 | | |
| | | Concentration elective 2 | 4-6 | | |
| | **18** | | **17-21** | | **8** |

**Year 3**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| COOP 3945 | 0 | ENGW 3306 (or ENGW 3314) | 4 |
| | | Social science introductory course | 4 |

| | | | Hours | |
|---|---|---|---|---|
| | | Concentration elective 3 | 4-6 | |
| | | Concentration elective 4 | 4-6 | |
| | **0** | | **16-20** | |

**Year 4**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| PHTH 4120 | 4 | PHTH 4540 | 4 |
| PHTH 4202 | 4 | Capstone course | 4 |
| Social science upper-level course | 3-4 | General elective | 4 |
| General elective | 4 | General elective | 4 |
| | **15-16** | | **16** |

**Total Hours: 132-143**

## FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER FIRST HALF, DESIGN CONCENTRATION

**Year 1**

| Fall | Hours | Spring | Hours | Summer 1 | Hours |
|---|---|---|---|---|---|
| ARCH 1000, HSCI 1000, or ARTF 1000 | 1 | ARCH 1110 | 4 | PHTH 2300 | 4 |
| PHTH 1260 | 4 | ARTF 1220 | 2 | ARTG 1270 and ARTG 1271 | 4 |
| PSYC 1101 | 4 | ARTF 1250 and ARTF 1251 | 2 | | |
| ARTG 1001 and ARTG 1002 | 4 | ENGW 1111 | 4 | | |
| BIOL option course 1 | 4-5 | BIOL option course 2 | 4-5 | | |
| | | EEAM 2000 (for CAMD students) | 1 | | |
| | **17-18** | | **17-18** | | **8** |

**Year 2**

| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
|---|---|---|---|---|---|---|---|
| PHTH 2210 | 4 | COOP 3945 | 0 | COOP 3945 | 0 | General elective | 4 |
| PHTH 2350 | 4 | ARTH elective | 4 | | | ARTF elective 1 | 2 |
| ARTG 1290 and ARTG 1291 | 4 | | | | | ARTF elective 2 | 2 |
| Design option 1 | 4 | | | | | | |
| HSCI 2000 (for Bouve students) | 1 | | | | | | |
| | **17** | | **4** | | **0** | | **8** |

**Year 3**

| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
|---|---|---|---|---|---|---|---|
| ENGW 3306 or 3314 | 4 | COOP 3945 | 0 | COOP 3945 | 0 | PHTH 2515 | 4 |
| Social sciences introductory course | 4 | General elective | 4 | | | General elective | 4 |
| Design elective 1 | 4 | | | | | | |
| Design elective 2 | 4 | | | | | | |
| | **16** | | **4** | | **0** | | **8** |

**Year 4**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| PHTH 4120 | 4 | PHTH 4540 | 4 |
| PHTH 4202 | 4 | Capstone course | 4 |
| Social science upper-level course | 3-4 | Design option 2 | 4 |

| Design elective 3 | 4 | General elective | 4 |
|---|---|---|---|
| | **15-16** | | **16** |

**Total Hours: 130-133**