

Design + Environmental Analysis

2022-2023

The requirements listed below pertain to all students matriculating in August 2022 and January 2023.

All of the following sections are required to be completed to graduate.

Courses in areas 1-11 must be taken for a Letter Grade.

Overall Credits (REQUIRED)		
Total: 120 credits	Human Ecology: 43 credits (courses from DEA, FSAD, HD, NS, PAM at any level or HE at the 3000/4000 level)	Human Ecology, outside the major: 9 credits (courses from FSAD, HD, NS, PAM at any level or HE at the 3000/4000 level)

1. DEA Core Courses (32 credits)

Take all of the following:

- DEA 1050 Career Explorations
- DEA 1101 Visual Literacy and Design Studio
- DEA 1110 Making a Difference: By Design
- DEA 1150 Design Graphics and Visualization
- DEA 1500 Introduction to Environmental Psychology
- DEA 2030 Design Portfolio and Communication
- DEA 2510 History of Design Futures
- DEA 2730 Human Centered Design Methods
- DEA 3590 Problem-Seeking through Programming
- DEA 4040 Professional Practices and Ethics
- DEA 5304 Design Accountability: Evaluation of the Physical Environment

2. DEA Thematic Courses (9 courses)

Letter grade only. **Three out of the 9 must be studio thematic courses.**

Note: Students must take at least one 2000-level studio. Students may not take more than 2 studios in one semester, this includes both DEA and non-DEA studios. Enrollment in 2 studios simultaneously requires approval from both studio instructors. DEA 4990 can fall under any of the three DEA Thematics.

Design Innovation & Strategy

- DEA 2025 Impactful Graphics: Visual Communication for Social Impact
- DEA 2200 Art+Science: Sustainability, Multiculturalism and Transdisciplinarity (formerly DEA 1200)
- DEA 2201 Magnifying Small Spaces Studio
- DEA 2203 Studio S H I F T
- DEA 2750 Lighting Design: Light InForming Space
- DEA 3050 Construction Documentation: CAD and BIM
- DEA 3301 Design UX with Technology Studio
- DEA 3306 Generative Design Studio
- DEA 3530 Planning and Managing the Workplace
- DEA 4402 Disruptive Design: Competitions Studio
- DEA 4500 Policy Meets Design: High-Impact Facilities of the 21st Century
- DEA 4990 Senior Honors Thesis
- DEA 5210 Interaction Design Studio
- DEA 5520 Virtual Experience of Designed Environments
- DEA 5540 Workplace Strategy Studio

Sustainable Futures

- DEA 2020 Introduction to Sustainable Design
- DEA 2040 High-Performance Buildings
- DEA 2422 Making Green: Sustainable Product Design Studio
- DEA 3030 Materials for Design & Sustainability
- DEA 3302 Sustainable Consumerism: The New Typologies Studio
- DEA 3500 The Ambient Environment
- DEA 4220 Ecological Literacy and Design
- DEA 4401 Adaptive Reuse Studio: Recycling the Built Environment

Health & Well-Being

DEA 2700 Healthy Places: Design, Planning and Public Health

DEA 3308 Positive Design Studio

DEA 3510 Human Factors and Inclusive Design

DEA 4700 Applied Ergonomic Methods

DEA 5305 Health and Healing Studio

DEA 5500 Designing Atmospheres

DEA 5560 Health Impact Assessment

DEA 5700 Designing Age Friendly Environments

3. Research Methods Course (3 credits)

Choose one of the following courses:

DEA 3550 Research Methods in Human-Environment Relations

ILROB 4710 Social Science Research Methods

PAM 3120 Research Design, Practice and Policy

4. First Year Writing Seminars (6 credits)

Note: The **2 required first year writing seminar courses** must be completed during the first two semesters at Cornell.

5. Psychology (3 credits)

Choose one of the following courses:

HD 1150 Human Development: Infancy and Childhood

HD 1170 Adolescence and Emerging Adulthood

PSYCH 1101 Introduction to Psychology

6. Introductory Microeconomics (3 credits)

ECON 1110 Introductory Microeconomics

7. Humanities (3-4 credits)

Choose any course with the Course Distribution Historical Analysis (HA), Literature and the Arts (LA), or Cultural Analysis (CA).

8. Statistics (4 credits)

Must be taken at Cornell, AP Statistics is not accepted

Choose one of the following courses:

PAM 2100 Introduction to Statistics

AEM 2100 Introductory Statistics

ILRST/STSCI 2100 Introductory Statistics

PSYCH 2500 Statistics and Research Design

9. Natural Science I (3-4 credits)

Choose one of the following:

BIOLOGY		CHEMISTRY	PHYSICS
BIOG 1140	BIOMG 1350	CHEM 1560 or CHEM 2070	PHYS 1101 or PHYS 2207
BIOG 1440 or BIOG 1445	BIOEE 1610	CHEM 2080	PHYS 1102 or PHYS 2208
AP Biology score of 5		AP Chemistry score of 5	AP Physics score of 5

Note: If AP isn't used to satisfy the requirement, then the **course must be taken at Cornell**.

Note: No lab is required.

10. Natural Science II (3-4 credits)

Choose any 3 credit course with a PBS, BIOLS-AG, or BIONLS-AG Course Distribution.

Note: No AP credit allowed, **course must be taken at Cornell**.

11. Additional Distribution Coursework (6 credits)

Any course with the Course Distribution PBS, BIOLS-AG, BIONLS-AG, SBA, KCM, MQR, LA, CA, or HA. Language courses may count here.

12. Electives (Variable)

Any courses that are not taken in Areas 1-12 above, count as Electives.

13. Physical Education Requirement (2 courses)

Physical Education must be completed in order to graduate. However, physical education does not count toward college and university minimum credit requirements for full-time status, nor does it count towards the 120 credits required for graduation.

14. Swim Test Requirement

A successful swim test must be completed in order to graduate.

College Polices:

- **120 Overall Credits**
 - Students must complete 120 credits toward graduation.
 - A maximum of 15 credits of AP credit and in absentia credit can count towards the 120 total credits.
 - 15 credits of Study Abroad/Exchange, Cornell-In-Washington or Capital semester can count towards total electives.
- **43 HE Credits**
 - Students must complete a minimum of 43 HE credits.
 - HE non-departmental courses at the 2000-level and below do not count toward the 43 HE credits.
 - Students must enroll in a minimum of one 3-credit course each semester in HE for their first four semesters, excluding winter and summer sessions (beginning with students entering in fall 2022).
- **9 HE Credits outside the major**
 - Students must complete a minimum of 9 HE credits outside of DEA. These credits are given for any Human Ecology course outside your major (except 4030). These can be taken S/U only if course is NOT used to fulfill a curriculum requirement [Areas 1-11].
- **Pass/Fail Courses [S/U]**
 - S/U grading option may NOT be used for any required course [Areas 1-11] unless it is the only grade option offered for those courses.
 - S/Us MAY be used for the 9 HE Credits outside the major and for electives in Area 12.
 - Students may apply no more than 12 credits of S/U towards graduation requirements. If a required course is only offered S/U, it will not count towards this limit. Students may take more S/Us if they choose, but the additional credit will not be applied towards graduation.
 - The **deadline for changing grade options is the 57th calendar day of the semester**, the same as the “drop” deadline.
- **Special Study Courses [4000, 4010, 4020, 4030]**
 - A maximum of 12 credits of special study course work from Human Ecology or other colleges will count towards the 120 overall credits. Courses will be indicated on the class roster with a Component of either IND or RSC. [Additional credits can be taken but will not be applied.]
 - A maximum of 12 credits of 4000-4030 may count toward the 43 HE credit requirement.
 - A maximum of 3 credits of 4000-4020 (not including 4030) may count towards the 9 HE credits outside the major requirement as long as the special study is in a department outside the student’s major.
 - Students cannot TA (4030) the same course for credit more than once or take and TA the same course simultaneously. 4030 does not fulfill any requirements towards the major. Registration for 4030 may not exceed 5 credit hours per semester.

Suggested Courses Based on Career Interests:

Bolded courses are important to complete in preparation for professional licensing and/or certification.

Design + Interior Environmentsⁱ

NCIDQ NCIDQ (National Council for Interior Design Qualification) is the industry's recognized indicator of proficiency in interior design principles and a designer's commitment to the profession. In addition to bolded titles, students should take four (4) non-bolded studios from list below:

DEA 2020 Introduction to Sustainable Design
DEA 2040 High-Performance Buildings
DEA 2201 Magnifying Small Spaces Studio
DEA 2203 Studio S H I F T
DEA 2750 Lighting Design: Light InForming Space
DEA 3030 Materials for Design & Sustainability
DEA 3050 Construction Documentation: CAD and BIM
DEA 3301 Design UX with Technology Studio
DEA 3500 The Ambient Environment
DEA 4220 Ecological Literacy and Design
DEA 4401 Adaptive Reuse Studio: Recycling the Built Environment
DEA 4402 Disruptive Design: Competitions Studio
DEA 4500 Policy Meets Design: High-Impact Facilities of the 21st Century
DEA 5520 Virtual Experience of Designed Environments
DEA 5305 Health and Healing Studio
DEA 5540 Workplace Strategy Studio

ⁱ To achieve eligibility toward taking the NCIDQ examination, students must complete a minimum of 60 credit hours of interior design courses. Students should complete all bolded courses listed under the Design and Interior Environments heading above.
<https://www.cidq.org/eligibility-requirements>

Ergonomics + Designⁱⁱ



Board of Certification in Professional Ergonomics
BCPE provides professional certification for practitioners of human factors/ergonomics/user experience (HF/E/UX) who demonstrate expertise and comprehensive understanding of the discipline.
DEA 2040 High-Performance Buildings
DEA 2201 Magnifying Small Spaces Studio (or alternate studio option)
DEA 2700 Healthy Places: Design, Planning and Public Health
DEA 3030 Materials for Design & Sustainability
DEA 3050 Construction Documentation: CAD and BIM
DEA 3301 Design UX with Technology Studio
DEA 3500 The Ambient Environment
DEA 3510 Ergonomics and Anthropometrics
DEA 3530 Planning and Managing the Workspace
DEA 4220 Ecological Literacy and Design
DEA 4700 Applied Ergonomic Methods
DEA 5305 Health and Healing Studio
COMM 2450 Communication and Technology
COMM 3450 Human-Computer Interaction Design
NS 3410 Human Anatomy and Physiology

ⁱⁱ To prepare for Board Certification in Professional Ergonomics (BCPE), students should complete all bolded courses listed under the Ergonomics and Design heading above.
<http://www.bcpe.org/how-to-certify/>