

Design + Environmental Analysis

2024-2025

The requirements listed below pertain to all students matriculating in August 2024 and January 2025.

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

Courses in areas 1-13 must be taken for a Letter Grade.

Overall Credits (REQUIRED)		
Total: 120 credits	Human Ecology: 45 credits (courses from DEA, FSAD, HD, NS, PUBPOL at any level or HE at the 3000/4000 level)	Human Ecology, outside the major: 11 credits (courses from FSAD, HD, NS, PUBPOL at any level or HE above 1500 level). Special Studies courses (4000, 4010, 4020) do not count.

1. DEA Core Courses (34 credits)

Take **all** of the following:

- DEA 1101 Visual Literacy and Design Studio
- DEA 1110 Making a Difference: By Design
- DEA 1140 Principles of Design Computing
- DEA 1150 Design Graphics and Visualization
- DEA 1501 Introduction to Environmental Psychology
- DEA 2025 Impactful Graphics: Visual Communication for Social Impact
- DEA 2510 History of Design Futures
- DEA 2730 Human Centered Design Methods
- DEA 4050 Design Portfolio and Communication
- DEA 4590 Problem-Seeking Through Programming
- DEA 4040 Professional Practices and Ethics
- DEA 4800 Ethical Design: Engine of Positive Change

2. FSAD Requirement (3 credits)

Students who applied to major in DEA are required to take **one** 1000-level FSAD course in the first year. They may choose from the below courses. **Note:** If student enrolls in FSAD 1350, this will count towards the Natural Science II requirement.

- FSAD 1250 Fashion, Art, and Design Thinking (3 credits, Fall semester, lecture course)
- FSAD 1350 Fibers, Fabrics, and Finishes (3 credits, Spring semester, lecture course)

3. DEA Thematic Courses (9 courses)

Choose **nine** courses from the list below, **one course from each thematic area is required**. Letter grade only.

Students must take at least one studio at the 2000-level, 3000-level, and 4000-level or above.

Students may not take more than 2 studios in one semester, this includes both DEA and non-DEA studios. DEA 4990 can count towards one Thematic area.

Design Innovation & Strategy

- DEA 2200 Art+Science: Sustainability, Multiculturalism and Transdisciplinarity
- 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 4025 Designing Decolonial Futures: Imagining the World Differently
- DEA 4220 Ecological Literacy and Design
- DEA 4401 Adaptive Reuse Studio: Recycling the Built Environment

- DEA 4990 Senior Honors Thesis
- 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 4990 Senior Honors Thesis
- DEA 5304 Design Accountability: Evaluation of the Physical Environment
- DEA 5305 Health and Healing Studio
- DEA 5500 Designing Atmospheres
- DEA 5560 Health Impact Assessment
- DEA 5700 Designing Age Friendly Environments

4. 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
- PUBPOL 3120 Research Design, Practice and Policy (*formerly PAM 3120*)

5. CHE Core Curriculum (5 credits)

Students must complete all three courses in their first three semesters:

- HE 1800 Blazing Your Trail in Human Ecology
- HE 1850 Introduction to Human Ecology
- HE 2000 Human Ecology Pathways to Racial and Social Justice

6. 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.

7. Psychology (3 credits)

AP Psychology is not accepted.

Choose **one** of the following courses:

- HD 1120 People in Perspective: Brain, Mind, and Society
- HD 1130 Introduction to Human Development
- PSYCH 1101 Introduction to Psychology

8. Introductory Microeconomics (3 credits)

AP Microeconomics is not accepted.

- ECON 1110 Introductory Microeconomics

9. Humanities (3-4 credits)

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

10. Statistics (4 credits)

Must be taken at Cornell, AP Statistics is not accepted.

Choose **one** of the following courses:

- PUBPOL 2100 Introduction to Statistics (*formerly PAM 2100*)
- AEM 2100 Introductory Statistics
- ILRST/STSCI 2100 Introductory Statistics
- PSYCH 2500 Statistics and Research Design

11. 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.

12. Natural Science II (3-4 credits)

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

Note: If student enrolls in FSAD 1350, this will count towards the Natural Science II requirement.

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

13. Additional Distribution Coursework (6 credits)

Any course with the Course Distribution PBS, ALC-AS, ETM-AS, HST-AS, SCD-AS, SSC-AS, SDS-AS, SMR-AS, BIOLS-AG, BIONLS-AG, SBA, KCM, MQR, LA, CA, or HA. Language courses may count here.

14. Electives (Variable)

Any courses that are not taken in Areas 1-13 above, count as Electives.

15. 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.

16. Swim Test Requirement

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

College Policies:

• **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.

• **45 HE Credits**

- Students must complete a minimum of 45 HE.
- HE non-departmental courses at the 1500-level and below do not count toward the 45 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.

• **11 HE Credits outside the major**

- Students must complete a minimum of 11 HE credits outside of DEA.
- FWS, HE non-departmental courses below the 1500 level, Statistics and Research Methods courses (PUBPOL 2100, PUBPOL 3120, DEA 3550, or HD 2830), Special Studies (4000, 4010, 4020), and teaching assistantships (4030) do not count toward this requirement.
- These can be taken S/U only if course is NOT used to fulfill a curriculum requirement [Areas 1-13].

• **Pass/Fail Courses [S/U]**

- S/U grading option may NOT be used for any required course [Areas 1-13] unless it is the only grade option offered for those courses.
- S/Us MAY be used for the 11 HE Credits outside the major and for electives in Area 14.
- 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 45 HE credit requirement.
- Credits from 4000, 4010, 4020, and 4030 cannot count towards the 11 HE credits outside the major requirement.
- 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.


DEA Policies:

- DEA does not accept AP credits for: Psychology, Microeconomics, Natural Science I & II and Statistics.
- Sequential Course Progression: Students must proceed through the DEA curriculum numerically, taking all 1000-level courses before enrolling in 2000-level courses and above.
- For 2000- level and above studio courses, students must complete all 1000-level Core courses, including DEA 1101, DEA 1110, and DEA 1501 with a minimum of a B-.
- Prerequisites must be completed prior to enrolling in a 2000-level and above DEA course.
- Students should not ask instructors to enroll / be put on a wait list if they have not completed all prerequisites.

Suggested Courses Based on Career Interests:

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

Design + Interior Environmentsⁱ

 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/>