A course is a course, of course, except when it is a subject. At MIT course numbers and abbreviations refer to courses of study leading to specific academic degrees and, by extension, to the departments or programs offering those degrees. For example, Course 6 refers to the Department of Electrical Engineering and Computer Science. Subjects are what many people typically think of as courses, i.e., a series of classes offered during a given academic period.

These descriptions are current but are subject to change. For schedules, consult the Online Subject Listing and Schedule (http://student.mit.edu/catalog). Below is a list of the departments and programs that offer subjects at MIT.

- Aeronautics and Astronautics (Course 16) (http://catalog.mit.edu/subjects/16)
- Aerospace Studies (AS) (http://catalog.mit.edu/subjects/as)
- Anthropology (Course 21A) (http://catalog.mit.edu/subjects/21a)
- Architecture (Course 4) (http://catalog.mit.edu/subjects/4)
- Biological Engineering (Course 20) (http://catalog.mit.edu/subjects/20)
- Biology (Course 7) (http://catalog.mit.edu/subjects/7)
- Brain and Cognitive Sciences (Course 9) (http://catalog.mit.edu/subjects/9)
- Chemical Engineering (Course 10) (http://catalog.mit.edu/subjects/10)
- Chemistry (Course 5) (http://catalog.mit.edu/subjects/5)
- Civil and Environmental Engineering (Course 1) (http://catalog.mit.edu/subjects/1)
- Comparative Media Studies / Writing (CMS) (http://catalog.mit.edu/subjects/cms)
- Comparative Media Studies / Writing (Course 21W) (http://catalog.mit.edu/subjects/21w)
- Computational and Systems Biology (CSB) (http://catalog.mit.edu/subjects/csb)
- Concourse (CC) (http://catalog.mit.edu/subjects/cc)
- Data, Systems, and Society (IDS) (http://catalog.mit.edu/subjects/ids)
- Earth, Atmospheric, and Planetary Sciences (Course 12) (http://catalog.mit.edu/subjects/12)
- Economics (Course 14) (http://catalog.mit.edu/subjects/14)
- Edgerton Center (EC) (http://catalog.mit.edu/subjects/ec)
- Electrical Engineering and Computer Science (Course 6) (http://catalog.mit.edu/subjects/6)
- Engineering Management (EM) (http://catalog.mit.edu/subjects/em)
- Experimental Study Group (ES) (http://catalog.mit.edu/subjects/es)
- Global Studies and Languages (Course 21G) (http://catalog.mit.edu/subjects/21g)
- Health Sciences and Technology (HST) (http://catalog.mit.edu/subjects/hst)
- History (Course 21H) (http://catalog.mit.edu/subjects/21h)
- Humanities (Course 21) (http://catalog.mit.edu/subjects/21)
- Linguistics and Philosophy (Course 24) (http://catalog.mit.edu/subjects/24)
- Literature (Course 21L) (http://catalog.mit.edu/subjects/21l)
- Management (Course 15) (http://catalog.mit.edu/subjects/15)
- Materials Science and Engineering (Course 3) (http://catalog.mit.edu/subjects/3)
- Mathematics (Course 18) (http://catalog.mit.edu/subjects/18)
- Mechanical Engineering (Course 2) (http://catalog.mit.edu/subjects/2)
- Media Arts and Sciences (MAS) (http://catalog.mit.edu/subjects/mas)
- Military Science (MS) (http://catalog.mit.edu/subjects/ms)
- Music and Theater Arts (Course 21M) (http://catalog.mit.edu/subjects/21m)
- Naval Science (NS) (http://catalog.mit.edu/subjects/ns)
- Nuclear Science and Engineering (Course 22) (http://catalog.mit.edu/subjects/22)
- Physics (Course 8) (http://catalog.mit.edu/subjects/8)
- Political Science (Course 17) (http://catalog.mit.edu/subjects/17)
- Science, Technology, and Society (STS) (http://catalog.mit.edu/subjects/sts)
- Special Programs (http://catalog.mit.edu/subjects/sp)
- Supply Chain Management (SCM) (http://catalog.mit.edu/subjects/scm)
- Urban Studies and Planning (Course 11) (http://catalog.mit.edu/subjects/11)
- Women’s and Gender Studies (WGS) (http://catalog.mit.edu/subjects/wgs)

How to Read Subject Descriptions

A subject description consists of four parts:

- Subject name (p. 4)
- Subject information (p. 4)
- Subject content (p. 5)
- Instructor(s) (p. 5)
### Examples:

**11.003[J] Methods of Policy Analysis**  
Same subject as 17.303[J]  
Prereq: 11.002[J]; Coreq: 14.01  
Acad Year 2019-2020: U (Spring)  
Acad Year 2020-2021: Not offered  
3-0-9 units. HASS-S  
Provides students with an introduction to public policy analysis. Examines various approaches to policy analysis by considering the concepts, tools, and methods used in economics, political science, and other disciplines. Students apply and critique these approaches through case studies of current public policy problems.  
**Staff**

**20.110[J] Thermodynamics of Biomolecular Systems**  
Same subject as 2.772[J]  
Prereq: Calculus II (GIR), Chemistry (GIR), and Physics I (GIR)  
U (Fall)  
5-0-7 units. REST  
**M. Birnbaum C. Voigt**

### Subject Information

The subject information section may include the following:

- **Same subject as**
  - Appears in parentheses, with the subject's other number(s), if a subject is jointly offered by or cross-listed with one or more departments.

- **Offered under**
  - Appears in parentheses, with all the cross-listed subject numbers that comprise a School-Wide Elective (SWE); this type of listing is unique to the School of Engineering.
Credit units (hours) indicate the total amount of time spent in class and laboratory, plus the estimated time that the average student spends on outside preparation, for one regular term subject. Credit hours are represented by three numbers separated by dashes (for example, 3-3-6). First is the number of units assigned for class time (lecture and/or recitation); second, the number of units for laboratory, design, or fieldwork; and third, the number of units for preparation. Each unit represents about 14 hours of work per term, or about one hour of work per week for a subject that spans an entire term. The total unit credit for a subject is obtained by adding together all the units shown. Units arranged indicates that units are specially arranged with the instructor.

Subjects that fulfill the General Institute Requirements, such as BIOLOGY, PHYSICS I and II, CALCULUS I and II, CHEMISTRY, REST (Restricted Electives in Science and Technology), Institute LAB, Partial LAB, or HASS (Humanities, Arts, and Social Sciences) are so designated to the right of the credit units.

Subjects that fulfill the HASS Requirement are designated HASS-H (Humanities), HASS-A (Arts), HASS-S (Social Sciences), or HASS-E (Elective).

Subjects fulfilling HASS component of the Communication Requirement are designated CI-H or CI-HW. See degree charts to identify communication-intensive subjects in each major (CI-M).

Appears to the right of the credit units if the subject is graded on a P, D, or F basis (where P means C or better performance).

Appears under the credit units if the subject can be taken more than once for academic credit.

Indicates subjects whose content is substantively similar to the subject described. Interested students should take care to register for credit for only one of the subjects indicated.

**Subject Content**
If a description of the subject content is not given, the associated subject number under which the description can be found appears instead. Any subject open only to special groups is so noted at the end of its content description.

**Instructor(s)**
The name of the instructor(s) or department contact appears in italics at the end of the subject description.