# ARCHAEOLOGY AND MATERIALS (COURSE 3-C)

Department of Materials Science and Engineering (*http://catalog.mit.edu/schools/engineering/materials-science-engineering/#undergraduatetext*)

## Bachelor of Science in Archaeology and Materials as Recommended by the Department of Materials Science and Engineering

### *General Institute Requirements (GIRs)*

The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

| Summary of Subject Requirements | Subjects |
|---|---|
| Science Requirement | 6 |
| Humanities, Arts, and Social Sciences (HASS) Requirement [can be satisfied by 3.985[J], 3.986, 3.987, and 21A.00; and 3.982 or 3.983 in the Departmental Program]; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement. | 8 |
| Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 3.012 and 12.001 in the Departmental Program] | 2 |
| Laboratory Requirement (12 units) [can be satisfied by 3.014 or 12.119 in the Departmental Program] | 1 |
| **Total GIR Subjects Required for SB Degree** | **17** |

| Physical Education Requirement |
|---|
| Swimming requirement, plus four physical education courses for eight points. |

### *Departmental Program*

Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

| Required Subjects | | Units |
|---|---|---|
| 3.012 | Fundamentals of Materials Science and Engineering | 15 |
| 3.014 | Materials Laboratory (CI-M) | 12 |
| 3.016 | Computational Methods for Materials Scientists and Engineers [1] | 12 |
| or 18.03 | Differential Equations | |
| 3.022 | Microstructural Evolution in Materials | 12 |
| 3.032 | Mechanical Behavior of Materials | 12 |
| or 3.044 | Materials Processing | |
| 3.985[J] | Archaeological Science | 9 |
| 3.986 | The Human Past: Introduction to Archaeology | 12 |
| 3.987 | Human Evolution: Data from Palaeontology, Archaeology, and Materials Science | 12 |
| 3.990 | Seminar in Archaeological Method and Theory (CI-M) | 9 |
| 3.THU | Undergraduate Thesis [2] | 9 |
| 12.001 | Introduction to Geology | 12 |
| 12.119 | Analytical Techniques for Studying Environmental and Geologic Samples | 12 |
| 21A.00 | Introduction to Anthropology: Comparing Human Cultures | 12 |
| *Select one of the following:* | | 12 |
| 1.00 | Engineering Computation and Data Science | |
| 3.021 | Introduction to Modeling and Simulation | |
| 6.01 | Introduction to EECS via Robotics | |
| **Restricted Electives** [3] | | |
| 3.982 | The Ancient Andean World | 9 |
| or 3.983 | Ancient Mesoamerican Civilization | |
| *Select one of the following:* | | 12 |
| 3.052 | Nanomechanics of Materials and Biomaterials | |
| 3.07 | Introduction to Ceramics | |
| 3.14 | Physical Metallurgy | |
| **Units in Major** | | 183 |
| **Unrestricted Electives** | | 69-81 |
| Units in Major That Also Satisfy the GIRs | | (81) |
| Total Units Beyond the GIRs Required for SB Degree | | 180 |

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

1 *18.032 Differential Equations is also an acceptable option.*

2 *Students may elect up to 9–12 units.*

3 *Substitution of similar subjects may be permitted by petition.*