VIS 41 Design Communication

**Beginning Practice: Choose one**
- MUS 1A Fundamentals of Music 1
- MUS 2A Basic Musicianship 1
- MUS 5 Sound in Time
- VIS 1 or 2 or 3 Art-Making
- VIS 60 Intro to Digital Photography
- VIS 80 Introduction to Studio

*MATH 20A Calculus for Science and Engineering
*MATH 20B Calculus for Science and Engineering
**CSE 11 Intro to Computer Science: JAVA
*Substitute: Math 10ABC, OR Math 15A/CSE 20
**Substitutions: Computer Science 8A and 8B

**Theory and History: Choose one**
- MUS 4 Introduction to Western Music
- MUS 6 Electronic Music
- MUS 7 Music, Science, and Computers
- MUS 13 Worlds of Music
- MUS 14 Contemporary Music

**Restricted electives: Choose two**
- MUS 1B Fundamentals of Music 2
- MUS 2B Basic Musicianship 2
- MUS 4, 5, 6, 7, 14, 19
- VIS 22 Formations of Modern Art
- VIS 70N Introduction to Media

**Visitor Series: Choose one**
- VIS 10 Computing Arts Lecture Series
- MUS 43 Music Department Seminar (1 unit course to be taken for 4 quarters)

**Foundation: Choose three**
- VIS 142 Practices in Computing Arts
- VIS 145A Digital Media I: Time, Movement, Sound
- MUS 170 Art of Sound
- MUS 171 Computer Music I

**Practice: Choose two**
- MUS 171 Computer Music I
- MUS 172 Computer Music II
- MUS 173 Electronic Music Prod. and Composition
- MUS 174A/B/C Audio and MIDI Studio Techniques
- MUS 176 Music Technology Seminar
- MUS 177 Music Programming
- TDDE 141 Theatre Process: Sound Design
- VIS 109 Advanced Projects in Media
- VIS 149 Seminar in Contemporary Computer Topics
- VIS 131 Special Projects in Media
- VIS 132 Installation Production and Studio
- VIS 141A Computer Programming for the Arts I
- VIS 141B Computer Programming for the Arts II
- VIS 145B Digital Media II
- VIS 147A Electronic Technologies for Art I
- VIS 147B Electronic Technologies for Art II
- VIS 174 Media Sketchbook
- VIS 143 Virtual Environments

**History: Choose one**
- VIS 159 History of Art and Technology
- MUS 114 Music and Ideas Since 1900

**Theory and History: Choose one**
- MUS 101ABC
- MUS 111 World Music Traditions
- MUS 114 Music and Ideas Since 1900
- MUS 126 Blues: An Oral Tradition
- MUS 127 Discover Jazz
- MUS 175 Musical Psychoacoustics
- PSYCH 138 Sound and Music Perception
- VIS 151 History of the Experimental Film
- VIS 152 Film in Social Context
- VIS 152D Identity - Transnational Cinema
- VIS 153 The Genre Series
- VIS 154 Hard Look at the Movies
- VIS 155 The Director Series
- VIS 156 Latin American Cinema
- VIS 158 Histories of Photography
- VIS 159 History of Art and Technology
- VIS 194 Fantasy in Film
**Advanced Practice: Choose one**
MUS 172 Computer Music II
MUS 174B/C Audio and MIDI Studio Techniques
VIS 141B Computer Programming for the Arts II VIS 145B Digital Media II
VIS 147B Electronic Technologies for Art I

**Electives: Choose two additional courses from Practice, Advanced Practice or History/Theory, OR:**
MUS 198 Directed Group Study
MUS 199 Independent Study
VIS 198 Directed Group Study
VIS 199 Special Studies
AIP 197 Academic Internship

**Senior Project**
*ICAM 160A Senior Project in Computer Arts
ICAM 160B Senior Project in Computer Arts
*Prerequisite: VIS 141B or 145B or 147B or MUS 172