Introduciton

Congratulations on being admitted to Carnegie Mellon University and welcome to the Bachelor of Humanities and Arts, the Bachelor of Science and Arts, and the Bachelor of Computer Science and Arts Program! You are among a select group of students who have the opportunity for an intercollege educational structure at Carnegie Mellon University.

The Bachelor of Humanities and Arts (BHA) Degree Program began in the fall of 1993. As a BHA student you may blend courses between the College of Fine Arts and the Dietrich College of Humanities and Social Sciences to develop a unique interdisciplinary curriculum.

The Bachelor of Science and Arts (BSA) Degree Program began in the fall of 1999. As a BSA student, you may design an interdisciplinary curriculum between the College of Fine Arts and the Mellon College of Science.

The Bachelor of Computer Science and Arts (BCSA) Degree Program began in the fall of 2008. As a BCSA student, you may intermix classes between the College of Fine Arts and the School of Computer Science to create an interdisciplinary curriculum that reflects Carnegie Mellon University’s emphasis between the arts and technology.

Collectively the BHA, BSA, and BCSA programs are grouped under the single heading of BXA Intercollege Degree Programs.

This 2016-2017 Undergraduate Student Handbook is a guide to the policies, procedures and requirements of the BXA Programs, as well as to other useful information. It is designed to give quick answers to many questions about the curriculum, the university and your role as a student in the four-year BXA Programs.

The material in this handbook is based on current policies, procedures and requirements. You will be notified of changes as they occur.

Please familiarize yourself with the contents of this handbook. A new edition is issued every year. Your questions and suggestions will make each edition more useful.

M. Stephanie Murray, Ph.D.
Director & Academic Advisor
Associate Teaching Professor

Carrie Settle Hagan, Ph.D.
Associate Director & Academic Advisor
Special Faculty

Emily Syes, M.Ed.
Sr. Academic & Communications Coordinator
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents</td>
<td>2</td>
</tr>
<tr>
<td>Directory</td>
<td>4</td>
</tr>
<tr>
<td>2016-2017 Academic Calendar</td>
<td>7</td>
</tr>
<tr>
<td>Vision, Mission, Values</td>
<td>9</td>
</tr>
<tr>
<td>Program Objectives</td>
<td>10</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>11</td>
</tr>
<tr>
<td>BHA General Education Requirements</td>
<td>12</td>
</tr>
<tr>
<td>BHA Dietrich College of Humanities and Social Sciences Concentrations</td>
<td>18</td>
</tr>
<tr>
<td>BHA &amp; BSA College of Fine Arts Concentrations</td>
<td>20</td>
</tr>
<tr>
<td>BSA General Education Requirements</td>
<td>28</td>
</tr>
<tr>
<td>BSA Mellon College of Science Concentrations</td>
<td>31</td>
</tr>
<tr>
<td>BCSA General Education Requirements</td>
<td>37</td>
</tr>
<tr>
<td>BCSA School of Computer Science Concentration</td>
<td>41</td>
</tr>
<tr>
<td>BCSA College of Fine Arts Concentrations</td>
<td>42</td>
</tr>
<tr>
<td>BXA Capstone</td>
<td>50</td>
</tr>
<tr>
<td>BXA Students</td>
<td>51</td>
</tr>
<tr>
<td>Academic Advising Statement</td>
<td>55</td>
</tr>
<tr>
<td>Registration</td>
<td>56</td>
</tr>
<tr>
<td>Adding/Dropping Classes</td>
<td>56</td>
</tr>
<tr>
<td>Class Standing</td>
<td>56</td>
</tr>
<tr>
<td>Overloads</td>
<td>56</td>
</tr>
<tr>
<td>Cross-Registration</td>
<td>57</td>
</tr>
<tr>
<td>Internships</td>
<td>58</td>
</tr>
<tr>
<td>Pittsburgh Filmmakers/Pittsburgh Glass Center</td>
<td>58</td>
</tr>
<tr>
<td>Study Abroad</td>
<td>58</td>
</tr>
<tr>
<td>Undergraduate Research Projects</td>
<td>58</td>
</tr>
<tr>
<td>Transcripts</td>
<td>59</td>
</tr>
<tr>
<td>Transfer and AP/IB Credit Evaluation</td>
<td>59</td>
</tr>
<tr>
<td>Academic Regulations, Requirements, and Procedures</td>
<td>60</td>
</tr>
<tr>
<td>Academic Actions</td>
<td>60</td>
</tr>
<tr>
<td>Disabilities</td>
<td>65</td>
</tr>
<tr>
<td>Privacy Policy</td>
<td>65</td>
</tr>
<tr>
<td>Grading Policies</td>
<td>65</td>
</tr>
<tr>
<td>Deans’ List</td>
<td>66</td>
</tr>
<tr>
<td>Honors</td>
<td>66</td>
</tr>
<tr>
<td>Internal Transfer</td>
<td>66</td>
</tr>
<tr>
<td>Leaving the University</td>
<td>66</td>
</tr>
<tr>
<td>University Code</td>
<td>67</td>
</tr>
<tr>
<td>University Resources</td>
<td>71</td>
</tr>
<tr>
<td>Outside the Classroom</td>
<td>74</td>
</tr>
<tr>
<td>Lectures and Events</td>
<td>74</td>
</tr>
<tr>
<td>The Bridge</td>
<td>74</td>
</tr>
<tr>
<td>Housing Cluster</td>
<td>74</td>
</tr>
<tr>
<td>Student Advisory Committee (SAC) Meetings</td>
<td>74</td>
</tr>
<tr>
<td>Kaleidoscope</td>
<td>75</td>
</tr>
<tr>
<td>Meeting of the Minds</td>
<td>75</td>
</tr>
<tr>
<td>Affiliated Research Centers</td>
<td>75</td>
</tr>
<tr>
<td>Campus Resources: Where to Go for What</td>
<td>76</td>
</tr>
<tr>
<td>Work-Study</td>
<td>78</td>
</tr>
<tr>
<td>Grants</td>
<td>78</td>
</tr>
<tr>
<td>Communication</td>
<td>79</td>
</tr>
<tr>
<td>Address and Phone Number Changes</td>
<td>79</td>
</tr>
<tr>
<td>Blackboard</td>
<td>79</td>
</tr>
<tr>
<td>Electronic Information and Communication</td>
<td>79</td>
</tr>
<tr>
<td>Email</td>
<td>79</td>
</tr>
<tr>
<td>Social Media</td>
<td>79</td>
</tr>
<tr>
<td>BXA Calendars</td>
<td>79</td>
</tr>
<tr>
<td>Glossary</td>
<td>80</td>
</tr>
<tr>
<td>Index</td>
<td>81</td>
</tr>
</tbody>
</table>
Directory

BXA Office
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Richard Pell
Art BCSA
Golan Levin
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Steve Stadelmeier
Steve Stadelmeier
Drama
Amy Nichols
Music
Sharon Johnston
Music BCSA
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CS Assistant Dean & Academic Advisor
Tom Cortina  x8-3514
tcortina@andrew.cmu.edu

2016-2017 Academic Calendar

2016 Fall Semester

**August 29**  Semester & Mini-1 Classes Begin
**August 2**  Mini-1 Course Add Deadline
**August 2**  Mini-1 Course Audit Grade Option Deadline
**August 2**  Mini-1 Course Drop Deadline to Receive Tuition Adjustment

**September 5**  Labor Day; No Classes
**September 12**  Semester Course Add Deadline
**September 12**  Semester Course Audit Grade Option Deadline
**September 12**  Semester Course Drop Deadline to Receive Tuition Adjustment
**September 28**  Mini-1 Course Drop & Pass/Fail Grade Option Deadline; Assign Withdrawal Grade After This Date

**October 11-21**  Mini-1 Faculty Course Evaluations
**October 17**  Mini-1 Last Day of Classes
**October 17**  Mini-1 Course Withdrawal Grade Deadline
**October 18-20**  No Undergraduate Mini-1 Course Meetings (Reading Period)

**October 21**  Undergraduate Mini-1 Exam Day
**October 21**  Mid-Semester Break; No Classes (Mini-1 exams will take place)
**October 24**  Mid-Semester Grades Due by 4 p.m.
**October 24**  Mini-2 Classes Begin
**October 26**  Mini-1 Final Grades Due by 4 p.m.
**October 28**  Mini-2 Course Add Deadline
**October 28**  Mini-2 Course Audit Grade Option Deadline
**October 28**  Mini-2 Course Drop Deadline to Receive Tuition Adjustment

**November 7**  Semester Course Drop and Pass/Fail Grade Option Deadline; Assign Withdrawal Grade After This Date
**November 14-18**  Spring 2017 Registration Week
**November 22**  Mini-2 Course Drop and Pass/Fail Grade Option Deadline; Assign Withdrawal Grade After This Date
**November 23-25**  Thanksgiving Holiday; No Classes
  **Nov. 28-Dec. 19**  Semester & Mini-2 Faculty Course Evaluations
  **December 9**  Semester & Mini-2 Last Day of Classes
  **December 9**  Semester & Mini-2 Course Withdrawal Deadline
  **December 10-11**  Reading Days

**December 12-13**  Final Examinations
**December 14**  Reading Day

**December 15-16**  Final Examinations
**December 17**  Reading Day

**December 18**  Final Examinations

**December 19**  Makeup Final Examinations
**December 21**  Final Grades Due by 4 p.m.
2017 Spring Semester

January 16  Martin Luther King Day; No Classes
January 17  Semester & Mini-3 Classes Begin
January 23  Mini-3 Course Add Deadline
January 23  Mini-3 Course Audit Option Deadline
January 23  Mini-3 Course Drop Deadline to Receive Tuition Adjustment
January 30  Semester Course Add Deadline
January 30  Semester Course Audit Grade Option Deadline
January 30  Semester Course Drop Deadline to Receive Tuition Adjustment
February 14  Mini-3 Course Drop and Pass/Fail Grade Option Deadline; Assign Withdrawal Grade After This Date
February 27-March 6  Mini-3 Faculty Course Evaluations
March 6  Mini-3 Last Day of Classes
March 6  Mini-3 Course Withdrawal Grade Deadline
March 7-9  No Undergraduate Mini-3 Course Meetings (Reading Period)
March 10  Undergraduate Mini-3 Exam Day
March 10  Mid-Semester Break; No Classes (Mini-3 undergraduate exams will take place)
March 13  Mid-Semester Grades Due by 4 p.m.
March 13-17  Spring Break; No Classes
March 15  Mini-3 Final Grades Due by 4 p.m.
March 20  Mini-4 Classes Begin
March 22  Summer 2017 Registration begins
March 24  Mini-4 Course Add Deadline
March 24  Mini-4 Audit Grade Option Deadline
March 24  Mini-4 Course Drop Deadline to Receive Tuition Adjustment
April 4  Semester Course Drop and Pass/Fail Grade Option Deadline; Assign Withdrawal Grade After This Date
April 18  Mini-4 Course Drop and Pass/Fail Grade Option Deadline; Assign Withdrawal Grade After This Date
April 20  No Classes
April 21-22  Spring Carnival; No Classes
April 24-28  Fall 2017 Registration Week
April 24-May 16  Semester & Mini-4 Faculty Course Evaluations
May 5  Semester & Mini-4 Last Day of Classes
May 5  Semester & Mini-4 Course Withdrawal Grade Deadline
May 6-7  Reading Days
May 8-9  Final Examinations
May 10  Reading Day
May 11-12  Final Examinations
May 13-14  Reading Days
May 15  Final Examinations
May 16  Makeup Final Examinations
May 18  Final Grades Due by 4 p.m. (graduating students)
May 21  Commencement
May 23  Final Grades Due by 4 p.m.

Vision – Mission – Values

BXA Intercollege Degree Programs

Our Vision
Our Vision is the lifelong success of students as leaders of their own educational experience and growth, creators of innovative and complex approaches to learning, and responsible contributors in an interdisciplinary world.

Our Mission
The BXA Intercollege Degree Programs are designed for students who want to turn talent and passion into viable professions for the future through a challenging academic regimen. BXA students pursue their goals with the help of multifaceted advising, innovative pedagogical strategies, and a focus on the impact arts have on technology and vice versa.

The goal of the Bachelor of Humanities and Arts (BHA), the Bachelor of Science and Arts (BSA), and the Bachelor of Computer Science and Arts (BCSA) BXA Intercollege Degree Programs is to allow a select group of students who demonstrate interest and accomplishment in the fine arts and the humanities, social sciences or natural sciences, computer science, and emerging media to explore beyond the traditional academic major, or integrate more than one field of study across disciplines. These programs foster the creativity of students who explore innovative approaches to the academic environments of two colleges. By merging the components in the arts and humanities, natural sciences, or computer science into an interdisciplinary/multidisciplinary study, a unique, complex product is born. BXA students produce new information, challenging questions, and innovative theory. BXA students are models of independence, motivation, and well-rounded scholarship as humanists, scientists, and artists at the same time.

In the context of the Carnegie Mellon University environment, the BXA Intercollege Degree Programs hold a special role. BXA provides access to four strong colleges that offer specialized training with expert faculty and researchers. The BXA Programs challenge students to utilize those resources as they explore and develop their own approach to interdisciplinary studies in the fine arts and the humanities and social sciences, the natural and mathematical sciences, or computer science.

BXA students balance courses in their CFA concentration with courses in their academic concentration, as well as BXA-specific courses. These BXA-specific courses give students the opportunity to integrate their areas of concentration by focusing on interdisciplinary approaches and arts-based research techniques. The curricula in the concentration areas provide students with a solid disciplinary foundation upon which they can draw for interdisciplinary projects.

A BXA Intercollege degree prepares students for graduate study and careers in an enormous variety of fields, including traditional graduate training in the arts as well as academic areas, positions in arts and education non-profits such as museums and foundations, and technical positions with media and technology companies.

Our Values
Artistic and Intellectual Excellence, Creativity and Innovation, Independence, Leadership, Community

Written by BXA students
BXA Intercollege Degree Programs

Program Objectives
The skills developed by BXA students span the creative, the technical, the academic, and the practical. The objective of the BXA Intercollege Degree Programs is to prepare graduates for careers in which they will draw on their creative and academic skills to create, educate, communicate, and innovate across disciplines.

Students who complete the BXA curriculum will graduate with the following skills:

- Foundational knowledge and technical expertise in the CFA concentration area and the DC/MCS/SCS concentration area
- Ability to describe the connections between these concentrations and how the student integrates them
- Ability to communicate ideas textually, visually, and orally
- Knowledge of how the concentration disciplines intersect with history, society, and culture from local and global perspectives
- Ability to use cognitive, behavioral, and ethical dimensions within the concentration disciplines to make decisions on individual and social levels
- Experience in engaging in art research to produce new knowledge both within the CFA concentration and the DC/MCS/SCS concentration
- Experience in designing, researching, and completing a large-scale, object-based project that integrates both areas of concentration

Degree Requirements

The Bachelor of Humanities and Arts (BHA) Degree
The BHA Degree has the following requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHA General Education</td>
<td>111</td>
</tr>
<tr>
<td>DC Concentration</td>
<td>81</td>
</tr>
<tr>
<td>CFA Concentration</td>
<td>108</td>
</tr>
<tr>
<td>Curriculum</td>
<td>300</td>
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<tr>
<td>Free Electives</td>
<td>+ 78</td>
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<tr>
<td>Total required for Graduation</td>
<td>378</td>
</tr>
</tbody>
</table>

The Bachelor of Science and Arts (BSA) Degree
The BSA Degree has the following requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSA General Education</td>
<td>129</td>
</tr>
<tr>
<td>MCS Concentration</td>
<td>111-134</td>
</tr>
<tr>
<td>CFA Concentration</td>
<td>108</td>
</tr>
<tr>
<td>Curriculum</td>
<td>348-371</td>
</tr>
<tr>
<td>Free Electives</td>
<td>+ 9-32</td>
</tr>
<tr>
<td>Total required for Graduation</td>
<td>380</td>
</tr>
</tbody>
</table>

The Bachelor of Computer Science and Arts (BCSA) Degree
The BCSA Degree has the following requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCSA General Education</td>
<td>121</td>
</tr>
<tr>
<td>SCS Concentration</td>
<td>111</td>
</tr>
<tr>
<td>CFA Concentration</td>
<td>108-118</td>
</tr>
<tr>
<td>Curriculum</td>
<td>340-350</td>
</tr>
<tr>
<td>Free Electives</td>
<td>+ 30-40</td>
</tr>
<tr>
<td>Total required for Graduation</td>
<td>380</td>
</tr>
</tbody>
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BHA General Education

BHA General Education (Gen Ed) Requirements

Any questions concerning the BHA Gen Ed requirements may be answered by the DC Academic Advisory Center located in BH A-57 or by visiting their website at: http://www.cmu.edu/dietrich/advisory-center

General Education Requirements (14 courses, 111 units minimum)
The BHA General Education curriculum is a modified version of the DC General Education program. In addition, students are required to fulfill BXA-specific courses.

1. Communicating: Language and Interpretations (3 courses, 27 units minimum, 76-101 required, two approved modern language courses required)
2. Reflecting: Societies and Cultures (1 course, 9 units minimum, 79-104 required)
3. Modeling: Mathematics and Experiments (1 course, 9 units minimum)
4. Deciding: Social Sciences and Values (3 courses, 27 units minimum, 36-201 required)
5. University Requirement (1 course, 3 units, 99-101 or 99-102 required)
6. BXA Required Courses (5 courses, 36 units minimum, 52-190 or 52-291, 52-391, 52-392, 52-401, 52-402)

1. Communicating: Language and Interpretations
   (3 courses, complete 27 units minimum)
Courses in this category give special attention to the study of language as interpretation, expression and argument within and across multiple discourses. Students examine language for its internal logics and structures.

76-101 Interpretation and Argument (various topics by section) 9
   http://www.cmu.edu/dietrich/english/first_year/index.html
82-xxx Modern Languages 18
   Complete two courses taught in a language offered by the Modern Languages Department. A wide selection of courses are offered in Arabic, Chinese Studies, European Studies, French and Francophone Studies, German Studies, Hispanic Studies, Italian, Japanese Studies, and Russian Studies. Students must complete two courses in the same language.
   Languages taught at other institutions are also acceptable (with advisor approval).

2. Reflecting: Societies and Cultures
   (1 course, complete 9 units minimum)
This category emphasizes the study of history, society, and culture from local and global perspectives.

79-104 Global Histories (various topics by section) 9
   www.history.cmu.edu/undergraduate/fall.html

3. Modeling: Mathematics and Experiments
   (1 course, complete 9 units minimum)
Courses in this category stress the interplay of mathematical (formal) theories and experimental work. Some courses investigate the internal structure of theories, whereas others use them as models for producing real-world knowledge. Such models may be drawn from a variety of disciplines including the natural sciences, but also, for example, psychology and computer science. The interactions between theorizing and experimenting (observing) can be understood within an intellectual framework that invites comparative assessment. Select one course from the following course options:

Mathematics
21-111 Calculus I 10
21-112 Calculus II * 10
21-120 Differential and Integral Calculus 10
21-122 Integration and Approximation * 10
21-124 Calculus II for Biologists and Chemists * 10
21-127 Concepts of Mathematics 10
21-241 Matrices and Linear Transformations 10
21-256 Multivariate Analysis * 9
21-257 Models and Methods for Optimization * 9
21-259 Calculus in Three Dimensions * 9
80-110 Nature of Mathematical Reasoning 9
80-210 Logic and Proofs 9
80-211 Logic and Mathematical Inquiry 9
80-212 Arguments and Logical Analysis 9

Natural Science
02-223 Personalized Medicine: Understanding Your Own Genome 9
02-250 Introduction to Computational Biology * 12
02-261 Quantitative Cell and Molecular Biology Laboratory 9
03-121 Modern Biology 9
03-125 Evolution 9
03-132 Basic Science to Modern Medicine 9
03-161 Molecules to Mind 9
03-220 Genetics * 9
03-230 Intro to Mammalian Physiology * 9
03-231/232 Biochemistry I * 9
03-250 Introduction to Computational Biology * 12
03-260 Neurobiology of Disease 9
03-320 Cell Biology * 9
03-352 Cellular Neuroscience * 9
03-353 Systems Neuroscience * 9
09-101 Introduction to Experimental Chemistry 3
09-103 Atoms, Molecules and Chemical Change 9
09-105 Introduction to Modern Chemistry I 10
09-106 Modern Chemistry II * 10
09-108 The Illusion and Magic of Food 6
09-207 Techniques in Quantitative Analysis * 9
09-217/218 Organic Chemistry I or II * 9
09-221 Laboratory I: Introduction to Chemical Analysis * 12
Continued course options for Modeling: Mathematics and Experiments

12-201  Geology  9
33-100  Basic Experimental Physics  6
33-104  Experimental Physics  9
33-106/107  Physics I or II for Engineering Students  12
33-111/112  Physics I or II for Science Students  12
33-114  Physics of Musical Sound  9
33-115  Physics for Future Presidents  9
33-124  Introduction to Astronomy  9
33-131/132  Matter and Interactions I or II  12
33-211  Physics III: Modern Essentials  10
33-213  Mini-Course in Special Relativity  4
33-224  Stars, Galaxies and the Universe  9
33-355  Nanoscience and Nanotechnology  9

Other Courses
05-413  Human Factors  9
06-100  Introduction to Chemical Engineering  12
09-109  Kitchen Chemistry Sessions  3
09-209  Kitchen Chemistry Sessions  3
12-100  Introduction to Civil and Environmental Engineering  12
15-104  Introduction to Computing for Creative Practice  10
15-110  Principles of Computing  10
15-112  Fundamentals of Programming and Computer Science  12
15-121  Introduction to Data Structures  10
15-388  Practical Data Science  9
18-100  Introduction to Electrical and Computer Engineering  12
19-101  Introduction Engineering and Public Policy  12
24-101  Fundamentals of Mechanical Engineering  12
27-100  Engineering the Materials of the Future  12
33-120  Science and Science Fiction  9
36-202  Statistical Methods  9
42-101  Introduction to Biomedical Engineering  12
73-274  Econometrics I  9
73-310  Evolution of Economics Ideas and Analysis  9
73-315  Market Design  9
73-347  Game Theory for Economists  9
73-348  Behavioral Economics  9
73-352  Public Economics  9
73-395  Firms, Market Structures, and Strategy  9
73-408  Law and Economics  9
73-421  Emerging Markets  9
73-449  Social, Economic and Information Networks  9
80-220  Philosophy of Science  9
80-222  Measurement and Methodology  9
80-226  Revolutions in Science  9
80-312  Philosophy of Mathematics  9
80-322  Philosophy of Physics  9
80-323  Philosophy of Biology  9

\* Indicates co-requisites and/or prerequisites required.

4. Deciding: Social Sciences and Values  
(3 courses, complete 27 units minimum)

The theme of this category is the exploration of cognitive, behavioral and ethical dimensions of decision-making on both the individual and social level. Making decisions requires a broad understanding of human rationality and social interaction. Some courses examine the critical collection and analysis of data for achieving such an understanding, of human rationality and social interaction. Some courses examine the critical collection and analysis of data for achieving such an understanding, whereas others emphasize the historical development of policies and values, which form the matrix for decision-making.

36-201  Statistical Reasoning and Practice - REQUIRED 9
08-200/19-211  Ethics and Policy Issues in Computing  9
36-207  Probability and Statistics for Business Applications  9
36-220  Engineering Statistics and Quality Control  9
36-247  Statistics for Lab Sciences  9
36-303  Sampling, Survey and Society  9
73-100  Principles of Economics  9
73-230  Intermediate Economics  9
73-328  Health Economics  12
73-338  Financial Crises and Risk  9
73-341  Within the Firm: Managing through Incentive  9
73-353  Economic Foundations of Regulation: Applications to Financial Markets  9
73-372  International Money and Finance  9
73-407  Fundamentals of Statistical Modeling  9
73-433  Environmental Policy and Economics  9
73-469  Global Electronic Markets: Economics and the Internet  9
76-359  Planning and Testing Documents  9
79-342  Introduction to Science and Technology Studies  9
80-130  Introduction to Ethics  9
80-136  Social Structure, Public Policy & Ethics  9
80-208  Critical Thinking  9
80-221  Philosophy of Social Science  9
80-230  Ethical Theory  9
80-242  Conflict and Dispute Resolution  9
Continued course options for Deciding: Social Sciences and Values

80-244 Environmental Ethics 9
80-245 Medical Ethics 9
80-248 Engineering Ethics 9
80-270 Philosophy of Mind 9
80-271 Philosophy and Psychology 9
80-305 Rational Choice 9
80-321 Causation, Law, and Social Policy * 9
80-324 Philosophy Economics 9
80-335 Deliberative Democracy: Theory and Practice 9
80-336 Philosophy of Law 9
80-348 Health Development and Human Rights 9
80-405 Game Theory 9
80-430 Ethics and Medical Research 9
80-447 Global Justice 9
84-104 Decision Processes in American Political Institutions 9
84-310 International Political Economy and Organizations 9
84-320 Domestic Politics and International Affairs 9
84-321 Autocrats and Democrats 9
84-330 CMU/WSP: The United States Supreme Court 12
84-331 CMU/WSP: Congress 12
84-334 CMU/WSP: International Policy 12
84-342 CMU/WSP: Economics of Public Policy 12
84-347 CMU/WSP: Lobbying, Money, and Influence in Washington 12
84-350 CMU/WSP: Campaigns and Elections 12
84-362 Diplomacy and Statecraft 9
84-380 Grand Strategy in the United States 9
84-386 The Privatization of Force 9
84-388 Concepts of War and Cyber War 6
84-389 Terrorism and Insurgency 9
84-402 Judicial Politics and Behavior 9
84-414 International and Subnational Security 9
85-102 Introduction to Psychology 9
85-211 Cognitive Psychology 9
85-213 Human Information Processing and Artificial Intelligence * 9
85-219 Biological Foundations of Behavior 9
85-221 Principles of Child Development 9
85-241 Social Psychology 9
85-251 Personality 9
85-261 Abnormal Psychology 9
85-395 Applications of Cognitive Science 9
88-120 Reason, Passion and Cognition 9
88-365 Behavioral Economics and Public Policy * 9

* Indicates co-requisites and/or prerequisites required.

5. University Requirement (1 course, 3 units)
This is a mini-course, pass/no pass, to be completed in the first semester.

99-101/102 Computing @ Carnegie Mellon 3

6. BXA Required Courses (5 course, 36 units minimum)
BXA-specific courses give students the opportunity to integrate their areas of concentration by focusing on interdisciplinary approaches and arts-based research techniques.

52-190 BXA Seminar I: Building the Wunderkammer 9
or 52-291 BXA Seminar II: Transferring Knowledge 9
52-391 BXA Junior Portfolio 0
52-392 BXA Seminar III: Deconstructing Disciplines 9
52-401 BXA Seminar IV: Capstone Fall 9
52-402 BXA Seminar V: Capstone Spring 9
### Dietrich College of Humanities and Social Sciences (DC) Concentrations

Each student meets individually with a BHA DC academic advisor to design an 81 unit DC concentration based on existing DC majors/minors. Curriculum for several BHA DC concentration options are available in the BXA office. Each student must complete a DC Concentration Sheet (with signature of DC academic advisor) and return it to the BXA office. This form is kept in the student’s file. It is recommended that a student complete this form at the end of the sophomore year. A list of DC academic advisors can be found in the Directory on pages 5-6 in this handbook.

<table>
<thead>
<tr>
<th>DC Departments</th>
<th>Majors/Additional Majors</th>
<th>Minors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
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<td>Economics</td>
</tr>
<tr>
<td>English</td>
<td>Creative Writing</td>
<td>Creative Writing</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>Professional Writing</td>
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<tr>
<td></td>
<td>Technical Writing &amp; Comm.</td>
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<tr>
<td>History</td>
<td>Global Studies</td>
<td>Anthropology</td>
</tr>
<tr>
<td></td>
<td>Social &amp; Political History</td>
<td>Social &amp; Political History</td>
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<tr>
<td>Institute for Politics &amp; Strategy</td>
<td>Intl. Relations &amp; Politics</td>
<td>Intl. Relations &amp; Politics</td>
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<tr>
<td></td>
<td></td>
<td>Politics &amp; Public Policy</td>
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<tr>
<td>Modern Languages</td>
<td>Chinese Studies</td>
<td>Chinese Studies</td>
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<td></td>
<td>French &amp; Francophone Studies</td>
<td>French &amp; Francophone Studies</td>
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<td>German Studies</td>
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<td>Hispanic Studies</td>
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<td>Japanese Studies</td>
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<td>Russian Studies</td>
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<tr>
<td>Philosophy</td>
<td>Logic &amp; Computation</td>
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<td>Logic and Computation</td>
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<td>Psychology</td>
<td>Cognitive Science</td>
<td>Cognitive Neuroscience</td>
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<tr>
<td>Social &amp; Decision Sciences</td>
<td>Decision Science</td>
<td>Policy &amp; Management</td>
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<td>Policy &amp; Management</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>Statistics</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

* Offered jointly by the Program in Economics and the Department of Mathematical Sciences

** Offered jointly by the Department of Biological Sciences and the Center for the Neural Basis of Cognition

*** Offered jointly by the Departments of Psychology and Biological Sciences

+ Offered jointly by the Departments of Statistics and Computer Science
BHA/BSA - CFA Concentrations

College of Fine Arts (CFA) Concentrations

Students choose their fine arts concentration from among the five schools in CFA: Architecture, Art, Design, Drama or Music. A student must meet entry requirements for the specific CFA School of their choice. While in the BHA or BSA Program, a student may change their CFA concentration only if they pass all admission requirements for that particular CFA school.

Architecture 108 units

Art 108 units

Design 108 units

Drama 108 units

Music 108 units

Architecture Concentration (108 units minimum)

BHA/BSA Architecture Academic Advisor:
Doug Cooper  MMCH 412B, x8-2367  dcooper@andrew.cmu.edu

Architecture Required Courses (52 units minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-100</td>
<td>Architecture Design Studio: Foundation I (Fall, Freshman year)</td>
</tr>
<tr>
<td>or 48-095</td>
<td>Spatial Concepts for Non-Architects I</td>
</tr>
<tr>
<td>48-120</td>
<td>Analog and Digital Media I (Fall, Freshman year)</td>
</tr>
<tr>
<td>48-125</td>
<td>Analog and Digital Media II (Spring, Freshman year)</td>
</tr>
<tr>
<td>48-240</td>
<td>Historical Survey of World Architecture and Urbanism I (Spring, Freshman year)</td>
</tr>
<tr>
<td>48-241</td>
<td>Modern Architecture (Fall, Sophomore year)</td>
</tr>
</tbody>
</table>

Architecture Electives (56 units minimum)

A minimum of 56 additional Architecture units must be approved by the Architecture advisor. A list of these selected courses must be filed in the BXA office.
BHA/BSA - CFA Concentration: Art

Art Concentration (108 units minimum)

PORTFOLIO REVIEW REQUIRED FOR ADMISSION

BHA/BSA Art Academic Advisor:
Mark Cato  CFA 300C, x8-1531  mdcato@andrew.cmu.edu

Concept Studios (2 courses, 20 units)
Complete two courses:

60-101  Concept Studio: The Self and the Human Being 10
60-201  Concept Studio: Space and Time 10
60-202  Concept Studio: Systems and Processes 10
60-203  Concept Studio: EcoArt 10
60-204  Concept Studio: Networked Narrative 10

Media Studios (3 courses, 30 units)
Complete three courses:

60-150  2D Media Studio: Drawing 10
60-160  2D Media Studio: Imaging 10
60-250  2D Media Studio: Painting 10
60-251  2D Media Studio: Print Media 10
60-130  3D Media Studio I (two minis, 5 units each) 10
60-131  3D Media Studio II (two minis, 5 units each) 10
60-110  Electronic Media Studio: Introduction to the Moving Image 10
60-210  Electronic Media Studio: Introduction to Interactivity 10

Advanced Studios (4 courses, 40 units)
Complete four courses. Courses may be offered in the fall and/or spring. Students may take
courses in any media area (ETB, SIS, CP or DP3). They may take all courses in one media
area if a focus is desired.

60-401/402  Senior Studio 10
60-403  Extended Studio 10
60-410–429  Advanced Electronic and Time-Based Work (ETB) 10
60-430–447  Advanced Sculpture, Installation and Site-Work (SIS) 10
60-448–449  Advanced Contextual Practice (CP) 10
60-450–498  Advanced Drawing, Painting, Print Media and Photography (DP3) 10
60-499  Studio Independent Study (one only) 10

Art History/Theory (2 courses, 18 units)

60-205  Modern Visual Culture: 1789-1960 (Fall) 9
60-206  Contemporary Visual Culture: 1960-Present (Spring) 9

Review Requirement (complete 2 required reviews, 0 units)
A review is required during the sophomore and senior years. Pass/no pass only.

60-200  Sophomore Review (Spring) 0
60-400  Senior Review (Fall) 0

BHA/BSA - CFA Concentration: Design

Design Concentration (108 units minimum)

PORTFOLIO REVIEW REQUIRED FOR ADMISSION

BHA/BSA Design Academic Advisor:
Steve Stadelmeier  MMCH 204B, x8-6952  ss1u@andrew.cmu.edu

Design Required Courses (96 units)

51-101  Studio: Survey of Design (Fall, Freshman year) 9
51-103  Design Workshop I (Fall, Freshman year) 3
51-121  Visualizing (Fall, Freshman year) 9
51-171  Placing (Fall, Freshman year) 9
51-102  Design Lab (Spring, Freshman year) 9
51-104  Design Workshop II (Spring, Freshman year) 3
51-122  Collaborative Visualizing (Spring, Freshman year) 9
51-172  Systems (Spring, Freshman year) 9

Choose Two Studios (Fall, Sophomore Year):
51-225  Communications Studio I: Understanding Form & Context 4.5
51-227  Prototyping Lab I: Communications 4.5
or 51-245  Products Studio I: Understanding Form & Context
or 51-247  Prototyping Lab I: Products

Choose Two Corresponding Labs (Fall, Sophomore year):
51-271  How People Work (Fall, Sophomore year) 9
51-371  Futures (Fall, Junior year or later) 9

Design Required Courses (12 units)
A minimum of 12 additional Design units must be approved by the Design advisor. A list of
these selected courses must be filed in the BXA office.
Drama Concentration (108 units minimum)

AUDITION/INTERVIEW REQUIRED FOR DIRECTING OR DRAMATURGY CONCENTRATION OPTION. PORTFOLIO REVIEW/INTERVIEW REQUIRED FOR DESIGN OR PRODUCTION TECHNOLOGY AND MANAGEMENT CONCENTRATION OPTION.

Options available in the following areas:
1) Design, 2) Directing, 3) Dramaturgy, 4) Production Technology and Management
(There is no BXA Acting or Music Theatre option.)

BHA/BSA Drama Academic Advisor:
Amy Nichols PCA 223, x8-1581 nicholsa@andrew.cmu.edu
Students will be assigned a faculty option coordinator in Drama.

Required Courses for All Concentration Options (20 units)

54-175 & 176 Conservatory Hour (1 unit each) 2
54-177 Foundations of Drama I 6
54-281 Foundations of Drama II (prerequisite: 54-177) 6
54-381 Special Topics in Drama: History, Literature and Criticism 6

Work with Drama Faculty Option Coordinator to Approve Concentration Option (88 units minimum):

Design Required Courses (26 units)

54-151 & 152 Stagecraft (15+11 units) 26

A minimum of 62 additional Design units must be approved by the Design faculty option coordinator. A list of these selected courses must be filed in the BXA office.

Directing Required Courses (52 units)

54-121 & 122 Directing I: Sources 18
54-221 & 222 Directing II: Fundamentals 18
54-159 Production Practicum 12
54-517 Director's Colloquium (four times) 4

A minimum of 36 additional Directing units must be approved by the Directing faculty option coordinator. A list of these selected courses must be filed in the BXA office.

Dramaturgy Required Courses (53 units minimum)

54-109 Dramaturgy 1: Approaches to Text 9
54-184 Dramaturgy 2: Introduction to Production Dramaturgy 9
54-121 Directing I: Sources 9
54-159 Production Practicum 6
54-200 Dramaturgy Forum (minimum of two; every semester it is offered while enrolled; Fall) 2
54-xxx Dramaturgy 3, 4, 5 or 6 (minimum of two; all four if enrolled as BXA for six semesters or more) 18

A minimum of 35 additional Dramaturgy units must be approved by the Dramaturgy faculty option coordinator. A list of these selected courses must be filed in the BXA office.

Production Technology and Management Required Courses (26 units)

54-151 & 152 Stagecraft (15+11 units) 26

A minimum of 62 additional PTM units must be approved by the PTM faculty option coordinator. A list of these selected courses must be filed in the BXA office.
BHA/BSA - CFA Concentration: Music

Music Concentration (108 units minimum)

AUDITION REQUIRED FOR MUSIC PERFORMANCE CONCENTRATION OPTION. PORTFOLIO REVIEW/INTERVIEW REQUIRED FOR COMPOSITION, MUSICOLOGY, OR MUSIC TECHNOLOGY CONCENTRATION OPTION.

Options available in the following areas:
1) Music Performance (Instrumental, Piano, Organ, Voice), 2) Composition, 3) Musicology, 4) Music Technology

BHA/BSA Music Academic Advisor:
Sharon Johnston    CFA 108, x8-2385    slj@cmu.edu

Required Course for All Concentration Options (9 units)

57-152 Harmony I (Fall) 9
or 57-149 Basic Harmony I 9

Work with Music Advisor to Approve Concentration Option (99 units minimum):

Music Performance and Composition Required Courses (76 units)

57-161 Eurhythmics I (recommended co-requisite: 57-181; Fall) 3
57-181 Solfege I (Fall) 3
or 57-180 Basic Solfege I 3
or 57-185 Advanced Solfege I 3
57-173 Survey of Western Music History (co-requisite: 57-188; Fall) 9
57-188 Repertoire and Listening for Musicians 1
57-69x BXA Studio (4 semesters) 36
57-xxx Major Ensemble (4 semesters) 24

A minimum of 23 additional Music units must be approved by the Music advisor. A list of these selected courses must be filed in the BXA office.

Musicology Required Courses (45 units)

57-283 Music History I (co-req: 57-190) 9
57-284 Music History II (co-req: 57-280) 9
57-285 Music History III (co-req: 57-290) 9
57-189 Introduction to Repertoire and Listening for Musicians 3
57-190 Repertoire and Listening for Musicians I 3
57-289 Repertoire and Listening for Musicians II 3
57-290 Repertoire and Listening for Musicians III 3
57-611 Independent Study in History 6

A minimum of 18 additional Music units must be approved by the Music advisor. A list of these selected courses must be filed in the BXA office.

Choose 36 units from:

57-209 Beatles 9
57-306 World Music 9
57-430 Music of Iran 9
57-477 Music of the Spirit 6
57-478 Survey of Historical Recording 6
57-480 History of Black American Music 6

Music Technology Required Courses (40 units)

57-101 Introduction to Music Technology 6
57-181 Solfege I (Fall) 3
or 57-180 Basic Solfege I 3
or 57-185 Advanced Solfege I 3
57-173 Survey of Western Music History (co-req: 57-188; Fall) 9
57-188 Repertoire and Listening for Musicians I 3
57-337 Sound Recording 6
57-347 Electronic and Computer Music 6
57-xxx Independent Study in Music Technology or Sound Recording 9

Choose 36 units from:

15-322 Introduction to Computer Music 9
15-323 Computer Music Systems and Information Processing 9
18-090 Twisted Signals: Music Systems and Information Processing 10
33-114 Physics of Musical Sound 9
54-166 Introduction to Sound Design for Theatre 6
54-666 Production Audio 6
57-193 Harmony II (Spring) 9
57-182 Solfege II (Spring) 3
or 57-186 Advanced Solfege II 3
57-283 Music History I (co-req: 57-190) 9
57-284 Music History II (co-req: 57-280) 9
57-285 Music History III (co-req: 57-290) 9
57-190 Repertoire and Listening for Musicians I 3
57-289 Repertoire and Listening for Musicians II 3
57-290 Repertoire and Listening for Musicians III 3
57-338 Sound Editing and Mastering 6
57-344 Experimental Sound Synthesis 9
57-345 Hacking the Music World 9
57-438 Multitrack Recording 9
60-131 3D Media Studio II 5
60-210 Electronic Media Studio: Introduction to Interactivity 10

A minimum of 23 additional Music units must be approved by the Music advisor. A list of these selected courses must be filed in the BXA office.
BSA General Education Requirements

The BSA General Education is a distinctive core curriculum that provides a foundation in humanities, social sciences, natural sciences, and mathematics. In addition, students are required to fulfill BXA-specific courses.

BSA General Education Requirements (16 courses, 135 units minimum)

1. Mathematics (2 courses, 20 units, 21-120 and 21-122 or 21-124 required)
2. Science (3 courses, 31 units, 03-121, 09-105, and 33-111 required)
3. First-year Courses (2 courses, 12 units, 76-101 and 99-101 or 99-102 required)
4. ENGAGE (3 courses, 3 units)
5. Cultural/Global Understanding (1 course, 9 units)
6. Humanities and Social Sciences (2 courses, 18 units)
7. BXA Required Courses (5 courses, 36 units minimum, 52-190 or 52-291, 52-391, 52-392, 52-401, 52-402)

Technical Breadth Requirements (5 courses, 51 units)

As a 21st Century practicing scientist or mathematician, our graduates will work with others from a variety of technical backgrounds. Therefore, all of our students will be broadly trained within the technical fields of science and math. Students will fulfill this training by completing five (5) introductory technical courses in the Mellon College of Science at Carnegie Mellon University.

A student must take the five (5) courses listed below. AP/IB/Cambridge credit may be used to fulfill some of these requirements, but STEM electives must be taken at CMU or at another university for transfer credit to reach the total of five (5) Technical Breadth courses. A list of STEM electives can be found in the MCS general education requirements. https://coursecatalog-new.web.cmu.edu/melloncollegesofscience/#forstudentsenteringinthefallof2015andbeyond

1. Mathematics (2 courses, 20 units)
   21-120   Differential and Integral Calculus 10
   or 21-124   Calculus II for Biologists and Chemists 10
2. Science (3 courses, 31 units)
   09-105   Introduction to Modern Chemistry I 10
   33-121   Physics I for Science Students 12

Nontechnical Breadth Requirements (8 courses, 42 units)

MCS aspires for all of our undergraduates to leave our campus with a strong sense of personal integrity, social responsibility, ethics, working with diverse others, global engagement, and personal health and well-being. The following non-technical breadth requirements will require students to develop a personalized plan for their course selection and meta-curricular participation to maximize their CMU experience. Our graduates will be well trained to be lifelong and life-wide learners that will lead the scientific community and the world at large.

1. First-year Courses (2 courses, 12 units)
   76-101   Interpretation and Argument (various topics by section) 9
   http://www.cmu.edu/dietrich/english/first_year/index.html
   99-101/102   Computing @ Carnegie Mellon 3

2. ENGAGE (3 courses, 3 units)
   The ENGAGE courses are self-directed learning opportunities (using the MyCORE online platform) designed to enhance students' engagement with wellness and community service. Choose three courses from the list below:
   38-110   ENGAGE in Service 1
   38-230   ENGAGE in Wellness: Looking Inward 1
   38-330   ENGAGE in Wellness: Looking Outward 1
   38-430   ENGAGE in Wellness: Looking Forward 1

3. Cultural/Global Understanding (1 course, 9 units)
   Cultural or global understanding course(s) may be taken at any time. Nine (9) or more units from the following group of courses will fulfill this requirement. Any student who finds an appropriate Carnegie Mellon course not on the list below that might fulfill this requirement should contact their academic advisor to review the course description to determine if it can be substituted. Cultural and global understanding courses that are taken while studying abroad can be used to fulfill this category. In addition, transfer courses will also be considered for this category.
   57-173   Survey of Western Music History * 9
   57-209   The Beatles 9
   57-306   World Music * 6
   70-342   Managing Across Cultures * 9
   73-231   Political Economy of Inequality and Redistribution * 9
   76-221   Books You Should Have Read By Now * 9
   76-227   Comedy 9
   76-232   Introduction to African American Literature * 9
   76-239   Introduction to Film Studies * 9
   76-241   Introduction to Gender Studies * 9
   76-386   Language & Culture * 9
   79-104   Global Histories 9
   79-201   Introduction to Anthropology 9
   79-202   Flesh and Spirit: Early Modern Europe, 1400-1750 9
   79-205   20th/21st Century Europe 9
   79-207   Development of European Culture 9
   79-221   Development and Democracy in Latin America 9
   79-229   Origins of the Arab-Israeli Conflict, 1880-1948 9
   79-230   Arab-Israeli Conflict and Peace Process since 1948 9
   79-240   The Development of American Culture 9
   79-241   African American History: Africa to the Civil War 9
   79-242   African American History: Reconstruction to the Present 9
### BSA General Education, Continued

**Continued required courses for Cultural/Global Understanding**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-255</td>
<td>Irish History</td>
<td>6</td>
</tr>
<tr>
<td>79-261</td>
<td>The Last Emperors: Chinese History and Society, 1600-1900</td>
<td>9</td>
</tr>
<tr>
<td>79-265</td>
<td>Russian History: From the First to the Last Tsar</td>
<td>9</td>
</tr>
<tr>
<td>79-266</td>
<td>Russian History: From Communism to Capitalism</td>
<td>9</td>
</tr>
<tr>
<td>79-275</td>
<td>Introduction to Global Studies</td>
<td>9</td>
</tr>
<tr>
<td>79-281</td>
<td>Introduction to Religion</td>
<td>9</td>
</tr>
<tr>
<td>79-297</td>
<td>Dilemmas and Controversies in Anthropology</td>
<td>9</td>
</tr>
<tr>
<td>79-307</td>
<td>Religion and Politics in the Middle East</td>
<td>9</td>
</tr>
<tr>
<td>79-345</td>
<td>The Roots of Rock and Roll</td>
<td>9</td>
</tr>
<tr>
<td>79-349</td>
<td>The Holocaust in Historical Perspective</td>
<td>9</td>
</tr>
<tr>
<td>79-350</td>
<td>Early Christianity</td>
<td>9</td>
</tr>
<tr>
<td>79-357</td>
<td>History of Black American Music</td>
<td>6</td>
</tr>
<tr>
<td>79-377</td>
<td>Food, Culture, and Power: A History of Eating</td>
<td>9</td>
</tr>
<tr>
<td>80-100</td>
<td>Introduction to Philosophy</td>
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<tr>
<td>80-250</td>
<td>Ancient Philosophy</td>
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<tr>
<td>80-251</td>
<td>Modern Philosophy</td>
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<tr>
<td>80-253</td>
<td>Continental Philosophy</td>
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<td>80-254</td>
<td>Analytic Philosophy</td>
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<td>80-255</td>
<td>Pragmatism</td>
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<tr>
<td>80-276</td>
<td>Philosophy of Religion</td>
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<tr>
<td>82-xxx</td>
<td>Any course from Modern Languages</td>
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<tr>
<td>99-241</td>
<td>Revolutions of Circularity</td>
<td>9</td>
</tr>
<tr>
<td>99-3xx</td>
<td>Any of the Country Today courses</td>
<td>3</td>
</tr>
</tbody>
</table>

* Indicates co-requisites and/or prerequisites required.

### 6. Humanities and Social Sciences (2 courses, 18 units)

To fulfill this requirement, students must complete a minimum of two non-technical courses totaling at least 18 units in the Tepper School of Business and/or the Dietrich College of Humanities and Social Sciences. Courses counted toward the Cultural/Global Understanding requirement, and 76-101, do not count toward this requirement.

Check the MCS web site for courses from DC and Tepper that may NOT be used to satisfy this requirement because they are too technical in nature, plus a list of courses in other colleges (including SCS, CIT, Tepper, and Heinz College) that do satisfy this requirement.

http://www.cmu.edu/mcs/undergrad/advising/hss-finearts/deletions.html
http://www.cmu.edu/mcs/undergrad/advising/hss-finearts/additions.html

### 7. BXA Required Courses (5 courses, 36 units minimum)

BXA-specific courses give students the opportunity to integrate their areas of concentration by focusing on interdisciplinary approaches and arts-based research techniques.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>52-190</td>
<td>BXA Seminar I: Building the Wunderkammer</td>
<td>9</td>
</tr>
<tr>
<td>07 52-291</td>
<td>BXA Seminar II: Transferring Knowledge</td>
<td>9</td>
</tr>
<tr>
<td>52-291</td>
<td>BXA Junior Portfolio</td>
<td>0</td>
</tr>
<tr>
<td>52-392</td>
<td>BXA Seminar III: Deconstructing Disciplines</td>
<td>9</td>
</tr>
<tr>
<td>52-401</td>
<td>BXA Seminar IV: Capstone Fall</td>
<td>9</td>
</tr>
<tr>
<td>52-402</td>
<td>BXA Seminar V: Capstone Spring</td>
<td>9</td>
</tr>
</tbody>
</table>

### BSA - MCS Concentrations

**Mellon College of Science (MCS) Concentrations**

BSA students choose their science concentration from among the departments in MCS: Biological Sciences, Chemistry, Mathematical Sciences, Neurobiology, or Physics.

- **Biological Sciences** 111 units
- **Chemistry** 121 units
- **Mathematical Sciences** 123 units
- **Neurobiology** 114 units
- **Physics** 134 units
### Biological Sciences Concentration (111 units minimum)

BSA Biological Sciences Academic Advisor:
Becki Campanaro  DH 1320, x8-3626  bmc413@cmu.edu

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-124 Modern Biology Laboratory</td>
<td>9</td>
</tr>
<tr>
<td>or 03-343 Experimental Techniques in Molecular Biology</td>
<td>12</td>
</tr>
<tr>
<td>03-201 &amp;/or 202 Undergraduate Colloquium for Sophomores</td>
<td>2</td>
</tr>
<tr>
<td>03-220 Genetics</td>
<td>9</td>
</tr>
<tr>
<td>03-231 or 232 Biochemistry I</td>
<td>9</td>
</tr>
<tr>
<td>03-320 Cell Biology</td>
<td>9</td>
</tr>
<tr>
<td>09-106 Modern Chemistry II</td>
<td>10</td>
</tr>
<tr>
<td>09-207 Techniques in Quantitative Analysis</td>
<td>9</td>
</tr>
<tr>
<td>09-208 Techniques for Organic Synthesis and Analysis *</td>
<td>9</td>
</tr>
<tr>
<td>or 03-344 Experimental Biochemistry</td>
<td>12</td>
</tr>
<tr>
<td>or 03-345 Experimental Cell and Developmental Biology</td>
<td>12</td>
</tr>
<tr>
<td>09-214 Physical Chemistry</td>
<td>9</td>
</tr>
<tr>
<td>or 09-344 Physical Chemistry (Quantum)</td>
<td>9</td>
</tr>
<tr>
<td>or 09-345 Physical Chemistry (Thermo)</td>
<td>9</td>
</tr>
<tr>
<td>09-217 Organic Chemistry I</td>
<td>9</td>
</tr>
<tr>
<td>09-218 Organic Chemistry II</td>
<td>9</td>
</tr>
<tr>
<td>33-122 Physics II for Biological Sciences and Chemistry Students</td>
<td>9</td>
</tr>
</tbody>
</table>

* Students must complete 03-343 if they wish to take 03-344/5/6.

### Biological Sciences Electives (2 courses, 18 units)

One course must be an advanced elective selected from 03-3xx or higher, excluding 03-445.

### Chemistry Concentration (121 units minimum)

BSA Chemistry Academic Advisor:
Karen Stump  DH 1316, x8-2340  ks01@andrew.cmu.edu

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>09-106 Modern Chemistry II</td>
<td>10</td>
</tr>
<tr>
<td>09-219 Modern Organic Chemistry</td>
<td>10</td>
</tr>
<tr>
<td>09-220 Modern Organic Chemistry II</td>
<td>10</td>
</tr>
<tr>
<td>09-214 Physical Chemistry</td>
<td>9</td>
</tr>
<tr>
<td>or 09-344 Physical Chemistry (Quantum)</td>
<td>9</td>
</tr>
<tr>
<td>or 09-345 Physical Chemistry (Thermo)</td>
<td>9</td>
</tr>
<tr>
<td>09-219 Modern Organic Chemistry</td>
<td>12</td>
</tr>
<tr>
<td>09-241 Laboratory I: Introduction to Chemical Analysis</td>
<td>12</td>
</tr>
<tr>
<td>09-222 Laboratory II: Organic Synthesis and Analysis</td>
<td>12</td>
</tr>
<tr>
<td>09-221 Laboratory III: Molecular Design and Synthesis</td>
<td>12</td>
</tr>
<tr>
<td>or 09-323 Bioorganic Chemistry Laboratory</td>
<td>12</td>
</tr>
<tr>
<td>09-204 Professional Communication Skills in Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>09-201 Undergraduate Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>09-202 Undergraduate Seminar II: Safety and Environmental Issues for Chemists</td>
<td>1</td>
</tr>
<tr>
<td>09-301 Undergraduate Seminar III</td>
<td>1</td>
</tr>
<tr>
<td>09-402 Undergraduate Seminar VI</td>
<td>3</td>
</tr>
<tr>
<td>33-122 Physics II for Biological Sciences and Chemistry Students</td>
<td>9</td>
</tr>
</tbody>
</table>

### Advanced Chemistry Electives (2 courses, 18 units)

May be any upper level chemistry course, 09-3xx or higher, or Biochemistry I, 03-231 or 03-232, with the exception of 09-435 Independent Study, which can be used only by permission of the Director of Undergraduate Studies.
MCS Concentration: Mathematical Sciences

Mathematical Sciences Concentration (123 units minimum)

BSA Mathematical Sciences Academic Advisor:
Russell Walker  WEH 6219, x8-2545  rw1k@andrew.cmu.edu

Mathematical Sciences Required Courses (87 units minimum)
(Reasonable substitutions within the core program will be allowed.)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-110</td>
<td>Principles of Computing</td>
<td>10</td>
</tr>
<tr>
<td>21-127</td>
<td>Concepts of Mathematics</td>
<td>10</td>
</tr>
<tr>
<td>or 21-128</td>
<td>Mathematical Concepts and Proofs</td>
<td>12</td>
</tr>
<tr>
<td>21-228</td>
<td>Discrete Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>21-241</td>
<td>Matrices and Linear Transformations</td>
<td>10</td>
</tr>
<tr>
<td>or 21-242</td>
<td>Matrix Theory</td>
<td>10</td>
</tr>
<tr>
<td>21-259</td>
<td>Calculus in Three Dimensions</td>
<td>9</td>
</tr>
<tr>
<td>or 21-268</td>
<td>Multidimensional Calculus</td>
<td>10</td>
</tr>
<tr>
<td>21-260</td>
<td>Differential Equations</td>
<td>9</td>
</tr>
<tr>
<td>or 21-261</td>
<td>Introduction to Ordinary Differential Equations</td>
<td>10</td>
</tr>
<tr>
<td>or 33-231</td>
<td>Physical Analysis</td>
<td>10</td>
</tr>
<tr>
<td>21-355</td>
<td>Principles of Real Analysis I</td>
<td>9</td>
</tr>
<tr>
<td>21-373</td>
<td>Algebraic Structures</td>
<td>9</td>
</tr>
<tr>
<td>33-142</td>
<td>Physics II for Engineering and Physics Students</td>
<td>12</td>
</tr>
<tr>
<td>or 33-152</td>
<td>Matter and Interactions II</td>
<td>12</td>
</tr>
</tbody>
</table>

Mathematical Sciences Electives (2 courses, 18 units)
Students with a Music concentration should take 21-272 Introduction to Partial Differential Equations.

Mathematical Sciences, Statistics, or Computer Science Electives (2 courses, 18 units)
May be computer science courses above the 100-level, mathematical science courses beyond the calculus sequence, and statistics courses at the level of 36-225 or higher.

MCS Concentration: Neurobiology

Neurobiology Concentration (114 units minimum)

BSA Neurobiology Academic Advisor:
Becki Campanaro  DH 1320, x8-3626  bmc413@cmu.edu

Biological Sciences Required Courses (96 units)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-161</td>
<td>Molecules to Mind</td>
<td>9</td>
</tr>
<tr>
<td>or 85-219</td>
<td>Biological Foundations of Behavior</td>
<td>9</td>
</tr>
<tr>
<td>03-201</td>
<td>Undergraduate Colloquium for Sophomores</td>
<td>2</td>
</tr>
<tr>
<td>03-220</td>
<td>Genetics</td>
<td>9</td>
</tr>
<tr>
<td>03-231</td>
<td>Biochemistry I</td>
<td>9</td>
</tr>
<tr>
<td>03-320</td>
<td>Cell Biology</td>
<td>9</td>
</tr>
<tr>
<td>03-342</td>
<td>Introduction to Biological Laboratory Practices</td>
<td>1</td>
</tr>
<tr>
<td>03-343</td>
<td>Experimental Techniques in Molecular Biology</td>
<td>12</td>
</tr>
<tr>
<td>03-362</td>
<td>Cellular Neuroscience</td>
<td>9</td>
</tr>
<tr>
<td>03-363</td>
<td>Systems Neuroscience</td>
<td>9</td>
</tr>
<tr>
<td>09-217</td>
<td>Organic Chemistry I</td>
<td>9</td>
</tr>
<tr>
<td>33-122</td>
<td>Physics II for Biological Sciences and Chemistry Students</td>
<td>9</td>
</tr>
<tr>
<td>85-211</td>
<td>Cognitive Psychology</td>
<td>9</td>
</tr>
</tbody>
</table>

Biological Sciences Electives (2 courses, 18 units)
One course must be an advanced elective selected from 03-3xx or higher.
MCS Concentration: Physics

Physics Concentration (134 units)

BSA Physics Academic Advisor:
Kunal Ghosh    WEH 7303, x8-3413    kunalghosh@cmu.edu

Physics Required Courses (116 units)

21-259    Calculus in Three Dimensions 9
33-104    Experimental Physics 9
33-142    Physics II for Engineering and Physics Students 12
or 33-152    Matter and Interactions II 12
33-201    Physics Sophomore Colloquium I (Fall) 2
33-202    Physics Sophomore Colloquium II (Spring) 2
33-211    Physics III: Modern Essentials 10
33-228    Electronics I 10
33-231    Physical Analysis 10
33-232    Mathematical Methods of Physics 10
33-234    Quantum Physics 10
33-301    Physics Upperclass Colloquium I (Fall) 1
33-302    Physics Upperclass Colloquium II (Spring) 1
33-331    Physical Mechanics I 10
33-338    Intermediate Electricity and Magnetism I 10
33-340    Modern Physics Laboratory 10
33-341    Thermal Physics I 10

Physics Elective Courses (2 courses, 18 units)

Two courses to be pre-approved by the Physics Department.

33-xxx    Two Physics Electives 18

NOTE: 33-114 Physics of Musical Sound (9 units) is highly recommended for students with a Music concentration.

BCSA General Education

BCSA General Education (Gen Ed) Requirements

The BCSA General Education is a distinctive core curriculum that provides a foundation in humanities, social sciences, natural sciences, and mathematics. In addition, students are required to fulfill BXA-specific courses.

BCSA General Education Requirements (15 courses, 121 units minimum)

1. Writing (1 course, 9 units, 76-101 required)
2. Cultural Analysis (1 course, 9 units minimum)
3. Mathematics (2 courses, 19 units minimum, 21-120 and either 21-122 or 21-241 required), Probability (1 course, 9 units minimum required)
4. Science (2 courses, 18 units minimum)
5. Engineering (In consultation with your academic advisor, an engineering course could substitute for one of the two Science requirements)
6. Economic, Political, and Social Institutions or Cognition, Choice and Behavior (1 course, 9 units minimum)
7. One additional course from one of the following departments: English, History, Modern Languages, Philosophy, or Psychology (1 courses, 9 units minimum)
8. University Requirement (1 course, 3 units, 99-101 or 99-102 required)
9. BXA Required Courses (5 courses, 36 units minimum, 52-190 or 52-291, 52-391, 52-392, 52-401, 52-402)

1. Writing (1 course, 9 units)
   Broadly considered, language is a tool used to communicate, as well as a way to organize non-visual and non-mathematical thinking. This requirement focuses on the social nature of language and the ways in which writing constitutes thinking.
   76-101    Interpretation and Argument (various topics by section) 9
   http://www.cmu.edu/dietrich/english/first_year/index.html

2. Cultural Analysis (1 course, complete 9 units minimum)
   This category explores definitions of culture and the role culture plays in producing different actions and institutions as well as the roles of institutions, systems and human actions in shaping cultural contexts. Listed below are examples of courses that meet the requirement for this category.
   57-173    Survey of Western Music History * 9
   70-342    Managing Across Cultures * 9
   76-227    Comedy 9
   76-232    Introduction to African American Literature * 9
   76-239    Introduction to Film Studies * 9
   76-241    Introduction to Gender Studies * 9
   79-104    Global Histories 9
   79-207    Development of European Culture 9
   79-222    Between Revolutions: The Development of Modern Latin America 9
   79-226    African History: Earliest Times to 1780 9
   79-230    Arab-Israeli Conflict and Peace Process since 1948 9
   79-240    The Development of American Culture 9
Continued required courses for Cultural Analysis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-241</td>
<td>African American History: Africa to the Civil War</td>
<td>9</td>
</tr>
<tr>
<td>79-242</td>
<td>African American History: Reconstruction to the Present</td>
<td>9</td>
</tr>
<tr>
<td>79-255</td>
<td>Irish History</td>
<td>6</td>
</tr>
<tr>
<td>79-282</td>
<td>Modern China</td>
<td>9</td>
</tr>
<tr>
<td>79-289</td>
<td>Europe and the World since 1800</td>
<td>9</td>
</tr>
<tr>
<td>79-345</td>
<td>The Roots of Rock and Roll</td>
<td>9</td>
</tr>
<tr>
<td>79-350</td>
<td>Early Christianity</td>
<td>9</td>
</tr>
<tr>
<td>79-395</td>
<td>The Arts in Pittsburgh</td>
<td>9</td>
</tr>
<tr>
<td>79-396</td>
<td>Music and Society in 19th and 20th Century Europe and the U.S.</td>
<td>9</td>
</tr>
<tr>
<td>80-100</td>
<td>Introduction to Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-250</td>
<td>Ancient Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-251</td>
<td>Modern Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-253</td>
<td>Continental Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-254</td>
<td>Analytical Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-255</td>
<td>Pragmatism</td>
<td>9</td>
</tr>
<tr>
<td>80-261</td>
<td>Empiricism and Rationalism</td>
<td>9</td>
</tr>
<tr>
<td>80-276</td>
<td>Philosophy of Religion</td>
<td>9</td>
</tr>
<tr>
<td>82-273</td>
<td>Introduction to Japanese Language and Culture</td>
<td>9</td>
</tr>
<tr>
<td>82-293</td>
<td>Introduction to Russian Culture</td>
<td>9</td>
</tr>
<tr>
<td>82-303</td>
<td>Introduction to French Culture *</td>
<td>9</td>
</tr>
<tr>
<td>82-304</td>
<td>The Francophone World *</td>
<td>9</td>
</tr>
<tr>
<td>82-333</td>
<td>Introduction to Chinese Language and Culture *</td>
<td>Var.</td>
</tr>
<tr>
<td>82-342</td>
<td>Spain: Language and Culture *</td>
<td>9</td>
</tr>
<tr>
<td>82-343</td>
<td>Latin America: Language and Culture *</td>
<td>9</td>
</tr>
<tr>
<td>82-344</td>
<td>U.S. Latinos: Language and Culture *</td>
<td>9</td>
</tr>
<tr>
<td>82-345</td>
<td>Introduction to Hispanic Literary and Cultural Studies *</td>
<td>9</td>
</tr>
</tbody>
</table>

* Indicates co-requisites and/or prerequisites required.

3. Mathematics & Probability (3 courses, 29 units minimum)

Choose two mathematics courses (20 units minimum):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-120</td>
<td>Differential and Integral Calculus</td>
<td>10</td>
</tr>
<tr>
<td>21-122</td>
<td>Integration and Approximation</td>
<td>10</td>
</tr>
<tr>
<td>or 21-241</td>
<td>Matrices and Linear Transformations</td>
<td>10</td>
</tr>
</tbody>
</table>

Choose one probability course (9 units minimum):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-359</td>
<td>Probability and Computing</td>
<td>12</td>
</tr>
<tr>
<td>21-325</td>
<td>Probability</td>
<td>9</td>
</tr>
<tr>
<td>36-217</td>
<td>Probability Theory and Random Processes</td>
<td>9</td>
</tr>
<tr>
<td>36-225</td>
<td>Introduction to Probability Theory</td>
<td>9</td>
</tr>
</tbody>
</table>

4. Science (2 courses, 18 units minimum)

Choose two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-121</td>
<td>Modern Biology</td>
<td>9</td>
</tr>
<tr>
<td>09-105</td>
<td>Introduction to Modern Chemistry I</td>
<td>10</td>
</tr>
<tr>
<td>21-259</td>
<td>Calculus in Three Dimensions</td>
<td>9</td>
</tr>
<tr>
<td>33-111</td>
<td>Physics I for Science Students</td>
<td>12</td>
</tr>
</tbody>
</table>

5. Engineering

In consultation with your academic advisor, an engineering course could substitute for one of the two Science requirements.

6. Economic, Political and Social Institutions or Cognition, Choice, and Behavior (1 course from either category, complete 9 units minimum)

Economic, Political and Social Institutions

This category examines the ways in which institutions organize individual preferences and actions into collective outcomes using model-based reasoning.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-101</td>
<td>Introduction to Engineering and Public Policy *</td>
<td>12</td>
</tr>
<tr>
<td>36-303</td>
<td>Sampling, Survey and Society *</td>
<td>9</td>
</tr>
<tr>
<td>70-332</td>
<td>Business, Society and Ethics *</td>
<td>9</td>
</tr>
<tr>
<td>73-100</td>
<td>Principles of Economics</td>
<td>9</td>
</tr>
<tr>
<td>73-230</td>
<td>Intermediate Microeconomics *</td>
<td>9</td>
</tr>
<tr>
<td>73-240</td>
<td>Intermediate Macroeconomics *</td>
<td>9</td>
</tr>
<tr>
<td>73-300</td>
<td>History of American Public Policy</td>
<td>9</td>
</tr>
<tr>
<td>79-320</td>
<td>Women, Politics, and Protest</td>
<td>9</td>
</tr>
<tr>
<td>79-331</td>
<td>Body Politics: Women and Health in America</td>
<td>9</td>
</tr>
<tr>
<td>80-135</td>
<td>Introduction to Political Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-136</td>
<td>Social Structure, Public Policy &amp; Ethics</td>
<td>9</td>
</tr>
<tr>
<td>80-244</td>
<td>Environmental Ethics</td>
<td>9</td>
</tr>
<tr>
<td>80-245</td>
<td>Medical Ethics</td>
<td>9</td>
</tr>
<tr>
<td>80-341</td>
<td>Computers, Society and Ethics</td>
<td>9</td>
</tr>
<tr>
<td>88-104</td>
<td>Decision Processes in American Political Institutions</td>
<td>9</td>
</tr>
<tr>
<td>88-220</td>
<td>Policy Analysis I</td>
<td>9</td>
</tr>
</tbody>
</table>

* Indicates co-requisites and/or prerequisites required.
**BCSA General Education, Continued**

**Cognition, Choice, and Behavior**
This category uses model-based analysis to broaden an understanding of human thinking, choices, and behavior on an individual basis across a variety of settings.

- 70-311 Organizational Behavior *
- 80-130 Introduction to Ethics
- 80-150 Nature of Reason
- 80-180 Nature of Language
- 80-221 Philosophy of Social Science
- 80-230 Ethical Theory
- 80-241 Ethical Judgments in Professional Life
- 80-270 Philosophy of Mind
- 80-271 Philosophy and Psychology
- 80-275 Metaphysics
- 80-281 Language and Thought
- 85-102 Introduction to Psychology
- 85-211 Cognitive Psychology
- 85-221 Principles of Child Development
- 85-241 Social Psychology
- 85-251 Personality
- 85-261 Abnormal Psychology
- 88-120 Reason, Passion and Cognition
- 88-260 Organizations

* Indicates co-requisites and/or prerequisites required.

7. **Complete ONE additional course from one of the following departments**
   *(1 course, complete 9 units minimum)*
   - English
   - History
   - Modern Languages
   - Philosophy
   - Psychology

8. **University Requirement** *(1 course, 3 units)*
   This is a mini-course, pass/no pass, to be completed in the first semester.

   99-101/102 Computing @ Carnegie Mellon

9. **BXA Required Courses** *(5 course, 36 units minimum)*
   BXA-specific courses give students the opportunity to integrate their areas of concentration by focusing on interdisciplinary approaches and arts-based research techniques.

   - 52-190 BXA Seminar I: Building the Wunderkammer
   - 05 52-291 BXA Seminar II: Transferring Knowledge
   - 52-391 BXA Junior Portfolio
   - 52-392 BXA Seminar III: Deconstructing Disciplines
   - 52-401 BXA Seminar IV: Capstone Fall
   - 52-402 BXA Seminar V: Capstone Spring

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**BCSA - SCS Concentration**

**School of Computer Science Concentration (111 units minimum)**

BCSA CS Assistant Dean & Academic Advisor:
Tom Cortina  GHC 4117, x8-3514  tcortina@andrew.cmu.edu

**Prerequisite**

15-112 Fundamentals of Programming and Computer Science 12

**Computer Science Core Requirements (56 units)**

15-122 Principles of Imperative Computation
15-150 Principles of Functional Programming
15-210 Parallel and Sequential Structures and Algorithms
15-213 Introduction to Computer Systems
15-251 Great Theoretical Ideas in Computer Science

**Concepts of Mathematics (10 units)**

21-127 Concepts of Mathematics (co-requisite for 15-122; prerequisite for 15-150) 10

**Applications Courses or CS Electives (5 courses, 45 units minimum)**
Choose a minimum of five courses from SCS beyond the core requirements, 200-level or higher, not including 15-221, 15-351, 16-223, 08-532. Listed below are suggested choices for these electives. Consult with the CS advisor if interested in courses not listed.

- 05-391 Designing Human Centered Software 12
- 05-418 Design Educational Games 12
- 11-344 Machine Learning in Practice 12
- 11-411 Natural Language Processing 12
- 15-322 Introduction to Computer Music 9
- 15-323 Computer Music Systems and Information Processing 9
- 15-365 Experimental Animation 12
- 15-381 Artificial Intelligence: Representation and Problem Solving 9
- 15-388 Practical Data Science 9
- 15-415 Database Applications 12
- 15-437 Web Application Development 12
- 15-463 Computational Photography 12
- 15-464 Technical Animation 12
- 15-465 Animation Art and Technology 12
- 15-466 Computer Game Programming 12
- 16-264 Humanoids 12
- 16-362 Mobile Robot Programming Laboratory 12
- 16-384 Robot Kinematics and Dynamics 12
- 16-385 Computer Vision 9
- 16-467 Human Robot Interaction 12
BCSA - CFA Concentrations

College of Fine Arts (CFA) Concentrations

Students choose their fine arts concentration from among the five schools in CFA: Architecture, Art, Design, Drama or Music. A student must meet entry requirements for the specific CFA School of their choice. While in the BCSA Program, a student may change their CFA concentration only if they pass all admission requirements for that particular CFA school.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>108 units</td>
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<tr>
<td>Art</td>
<td>118 units</td>
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<tr>
<td>Design</td>
<td>108 units</td>
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<tr>
<td>Drama</td>
<td>108 units</td>
</tr>
<tr>
<td>Music</td>
<td>108 units</td>
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</table>

BCSA - CFA Concentration: Architecture

Architecture Concentration (108 units minimum)

BCSA Architecture Academic Advisor:
Doug Cooper  MMCH 412B, x8-2367  dcooper@andrew.cmu.edu

Architecture Required Courses (52 units minimum)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>48-100</td>
<td>Architecture Design Studio: Foundation I</td>
<td>12</td>
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<tr>
<td>or 48-095</td>
<td>Spatial Concepts for Non-Architects I</td>
<td>10</td>
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<tr>
<td>48-120</td>
<td>Analog and Digital Media I (Fall, Freshman year)</td>
<td>12</td>
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<tr>
<td>48-125</td>
<td>Analog and Digital Media II (Spring, Freshman year)</td>
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<tr>
<td>48-240</td>
<td>Historical Survey of World Architecture and Urbanism I (Spring, Freshman year)</td>
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<tr>
<td>48-241</td>
<td>Modern Architecture (Fall, Sophomore year)</td>
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Architecture Electives (56 units minimum)

A minimum of 56 additional Architecture units must be approved by the Architecture advisor. A list of these selected courses must be filed in the BXA office.
Art Concentration (118 units minimum)

PORTFOLIO REVIEW REQUIRED FOR ADMISSION

BCSA Art Academic Advisors:
Golan Levin    CFA 405, 917-520-7456    golan@andrew.cmu.edu
Mark Cato     CFA 300C, x8-1531    mdcato@andrew.cmu.edu

Concept Studios (2 courses, 20 units)
Complete two courses:
60-101    Concept Studio: The Self and the Human Being 10
60-201    Concept Studio: Space and Time 10
60-202    Concept Studio: Systems and Processes 10
60-203    Concept Studio: EcoArt 10
60-204    Concept Studio: Networked Narrative 10

Media Studios (2 courses, 20 units)
Complete two courses:
60-150    2D Media Studio: Drawing 10
60-160    2D Media Studio: Imaging 10
60-250    2D Media Studio: Painting 10
60-251    2D Media Studio: Print Media 10
60-130    3D Media Studio I (two minis, 5 units each) 10
60-131    3D Media Studio II (two minis, 5 units each) 10
60-110    Electronic Media Studio: Introduction to the Moving Image 10
60-210    Electronic Media Studio: Introduction to Interactivity 10

Advanced Studios (6 courses, 60 units)
Complete six courses. Courses may be offered in the fall and/or spring. Students may take courses in any media area (ETB, SIS, CP or DP3). They may take all courses in one media area if a focus is desired.

60-401/402 Senior Studio 10
60-403    Extended Studio 10
60-410—429 Advanced Electronic and Time-Based Work (ETB) 10
60-430—447 Advanced Sculpture, Installation and Site-Work (SIS) 10
60-448—449 Advanced Contextual Practice (CP) 10
60-450—498 Advanced Drawing, Painting, Print Media and Photography (DP3) 10
60-499    Studio Independent Study (one only) 10

Art History/Theory (2 courses, 18 units)

60-205    Modern Visual Culture: 1789-1960 (Fall) 9
60-206    Contemporary Visual Culture: 1960-Present (Spring) 9

Review Requirement (complete 2 required reviews, 0 units)
A review is required during the sophomore and senior years. Pass/no pass only.

60-200    Sophomore Review (Spring) 0
60-400    Senior Review (Fall) 0

Design Concentration (108 units minimum)

PORTFOLIO REVIEW REQUIRED FOR ADMISSION

BCSA Design Academic Advisor:
Steve Stadelmeier    MMCH 204B, x8-6952    ss1u@andrew.cmu.edu

Design Required Courses (96 units)

51-101    Studio: Survey of Design (Fall, Freshman year) 9
51-103    Design Workshop I (Fall, Freshman year) 3
51-121    Visualizing (Fall, Freshman year) 9
51-171    Placing (Fall, Freshman year) 9
51-102    Design Lab (Spring, Freshman year) 9
51-104    Design Workshop II (Spring, Freshman year) 3
51-122    Collaborative Visualizing (Spring, Freshman year) 9
51-172    Systems (Spring, Freshman year) 9

Choose Two Studios (Fall, Sophomore Year): 4.5 + 4.5
51-225    Communications Studio I: Understanding Form & Context
or 51-245    Products Studio I: Understanding Form & Context
or 51-265    Environments Studio I: Understanding Form & Context

Choose Two Corresponding Labs (Fall, Sophomore year): 4.5 + 4.5
51-227    Prototyping Lab I: Communications
or 51-247    Prototyping Lab I: Products
or 51-267    Prototyping Lab I: Environments
51-271    How People Work (Fall, Sophomore year) 9
51-371    Futures (Fall, Junior year or later) 9

Design Required Courses (12 units)
A minimum of 12 additional Design units must be approved by the Design advisor. A list of these selected courses must be filed in the BXA office.
Drama Concentration (108 units minimum)

AUDITION/INTERVIEW REQUIRED FOR DIRECTING OR DRAMATURGY CONCENTRATION OPTION. PORTFOLIO REVIEW/INTERVIEW REQUIRED FOR DESIGN OR PRODUCTION TECHNOLOGY AND MANAGEMENT CONCENTRATION OPTION.

Options available in the following areas:
1) Design, 2) Directing, 3) Dramaturgy, 4) Production Technology and Management
(There is no BXA Acting or Music Theatre option.)

BCSA Drama Academic Advisor:
Ari Blackford  PCA 223, x8-1581  ariblackford@cmu.edu
Students will be assigned a faculty option coordinator in Drama.

Required Courses for All Concentration Options (20 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<td>54-175 &amp; 176</td>
<td>Conservatory Hour (1 unit each)</td>
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<tr>
<td>54-177</td>
<td>Foundations of Drama I</td>
<td>6</td>
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<tr>
<td>54-281</td>
<td>Foundations of Drama II (prerequisite: 54-177)</td>
<td>6</td>
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<tr>
<td>54-381</td>
<td>Special Topics in Drama: History, Literature and Criticism</td>
<td>6</td>
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</table>

Work with Drama Faculty Option Coordinator to Approve Concentration Option (88 units minimum):

Design Required Courses (26 units)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>54-151 &amp; 152</td>
<td>Stagecraft (15+11 units)</td>
<td>26</td>
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</table>

A minimum of 62 additional Design units must be approved by the Design faculty option coordinator. A list of these selected courses must be filed in the BXA office.

Directing Required Courses (52 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>54-121 &amp; 122</td>
<td>Directing I: Sources</td>
<td>18</td>
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<tr>
<td>54-221 &amp; 222</td>
<td>Directing II: Fundamentals</td>
<td>18</td>
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<tr>
<td>54-159</td>
<td>Production Practicum</td>
<td>12</td>
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<tr>
<td>54-517</td>
<td>Director’s Colloquium (four times)</td>
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A minimum of 36 additional Directing units must be approved by the Directing faculty option coordinator. A list of these selected courses must be filed in the BXA office.

Dramaturgy Required Courses (53 units minimum)

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<td>54-109</td>
<td>Dramaturgy 1: Approaches to Text</td>
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<tr>
<td>54-184</td>
<td>Dramaturgy 2: Introduction to Production Dramaturgy</td>
<td>9</td>
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<tr>
<td>54-121</td>
<td>Directing I: Sources</td>
<td>9</td>
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<tr>
<td>54-159</td>
<td>Production Practicum</td>
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<tr>
<td>54-200</td>
<td>Dramaturgy Forum</td>
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<tr>
<td>54-xxx</td>
<td>Dramaturgy 3, 4, 5 or 6</td>
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</table>

A minimum of 35 additional Dramaturgy units must be approved by the Dramaturgy faculty option coordinator. A list of these selected courses must be filed in the BXA office.

Production Technology and Management Required Courses (26 units)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>54-151 &amp; 152</td>
<td>Stagecraft (15+11 units)</td>
<td>26</td>
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</tbody>
</table>

A minimum of 62 additional PTM units must be approved by the PTM faculty option coordinator. A list of these selected courses must be filed in the BXA office.
Music Concentration (108 units minimum)

AUDITION REQUIRED FOR MUSIC PERFORMANCE CONCENTRATION OPTION. PORTFOLIO REVIEW/INTERVIEW REQUIRED FOR COMPOSITION, MUSICOLOGY, OR MUSIC TECHNOLOGY CONCENTRATION OPTION.

Options available in the following areas:
1) Music Performance (Instrumental, Piano, Organ, Voice), 2) Composition, 3) Musicology, 4) Music Technology

BCSA Music Academic Advisors:
Riccardo Schulz    CFA A-6A, x8-3450    rs6k@andrew.cmu.edu
Sharon Johnston    CFA 108, x8-2385    slj@cmu.edu

Required Course for All Concentration Options (9 units)
57-152 Harmony I 9
or 57-149 Basic Harmony I 9

Work with Music Advisor to Approve Concentration Option (99 units minimum):

Music Performance and Music Composition Required Courses (76 units)

57-161 Eurythmics I (recommended co-requisite: 57-181; Fall) 3
57-181 Solfege I (Fall) 3
or 57-180 Basic Solfege I 3
or 57-185 Advanced Solfege I 3
57-173 Survey of Western Music History (co-requisite: 57-188; Fall) 9
57-188 Repertoire and Listening for Musicians 1
57-69x BXA Studio (4 semesters) 24
57-xxx Major Ensemble (4 semesters) 36

A minimum of 23 additional Music units must be approved by the Music advisor. A list of these selected courses must be filed in the BXA office.

Musicology Required Courses (45 units)

57-283 Music History I (co-req: 57-190) 9
57-284 Music History II (co-req: 57-289) 9
57-285 Music History III (co-req: 57-290) 9
57-189 Introduction to Repertoire and Listening for Musicians 3
57-190 Repertoire and Listening for Musicians I 3
57-289 Repertoire and Listening for Musicians II 3
57-290 Repertoire and Listening for Musicians III 3
57-611 Independent Study in History 6

A minimum of 23 additional Music units must be approved by the Music advisor. A list of these selected courses must be filed in the BXA office.
BXA Capstone

The goal of the BXA Capstone is to give BXA students the opportunity to weave together the interdisciplinary elements of their curricula into an integrated project. The project’s goals should incorporate the student’s prior coursework both in the arts and in the humanities/social sciences (BHA), the physical and natural sciences (BSA), or computer science (BCSA). The creation and completion of such a project should be an important integrative and fulfilling capstone for BXA students. In addition, the capstone project provides a concrete result of the interdisciplinary work undertaken by the student over the course of her or his college career.

The project topic should include elements that span the student’s CFA and DC concentrations, CFA and MCS concentrations, or CFA and SCS concentrations, though it could emphasize one area more than the other. The project can be a scholarly or creative endeavor, and it may take one of many possible forms (e.g., a written thesis, a compilation of creative work or works, an experiment and report, a computer program or animation, etc.).

BXA Capstones span the entire senior year (18 units for two semesters) and are structured as exploratory study under the supervision of a single faculty member or a small committee of faculty from the areas relevant to the project. In addition, the BXA Academic Advisor instructs both courses and advises the individual projects. Students should register for the following BXA Capstone courses:

- 52-401 BXA Seminar IV: Capstone Fall (course attendance required) 9
- 52-402 BXA Seminar: Capstone Spring (does not meet, independent study) 9

It is expected that BXA Capstone participants will present their projects during the university’s spring undergraduate research symposium, Meeting of the Minds, in their senior year. Please register online: http://www.cmu.edu/uro/MoM/

Students may substitute the BXA Capstone requirement by completing an honors project/thesis with CFA, DC, MCS, or SCS. Students must gain pre-approval of substitution with their BXA Academic Advisor.

Capstone with Intercollege Honors

BHA, BSA, and BCSA students who successfully complete a BXA Capstone project under the guidance of a faculty member will graduate with BHA, BSA, or BCSA Intercollege Honors if all of the following conditions are met:

- grade of “A” achieved in 52-401 and 52-402
- overall QPA of 3.25 or higher
- research results presented at Meeting of the Minds Undergraduate Research Symposium

Bachelor of Humanities and Arts (BHA)

<table>
<thead>
<tr>
<th>BHA Students</th>
<th>DC</th>
<th>CFA</th>
<th>User ID</th>
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<tbody>
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BXA Students - Fall 2016
### Bachelor of Humanities and Arts (BHA)

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### Bachelor of Science and Arts (BSA)

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Bachelor of Computer Science and Arts (BCSA)

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Academic Advising Statement

BXA Academic Advising

Academic advising is an essential component of a Carnegie Mellon University education. The university is committed to providing the individual advice and assistance that students need at every step throughout their degree programs. A successful system of academic advising is highly dependent upon the shared commitment of students, faculty, and staff to the process and the availability of timely, accurate information.

Students are encouraged to seek advice from all possible resources on and off campus in order to get the most out of the undergraduate years. As a BXA student, you have a rich advising network of individuals committed to guiding your unique curricular experience. Please visit your advisors and make sure they know who you are. Your advisors are valuable resources for today and for your future.

BXA students are responsible for scheduling, preparing for, and keeping advising appointments; for seeking out contacts and information; and for knowing the basic requirements of their individual degree programs. Students bear the final responsibility for making their own decisions based on the best information and advice available and, ultimately, on their own judgment.

BXA advisors are responsible for developing a thorough knowledge of the degree requirements within the students’ program of study and a working knowledge of academic options and resources throughout the university. Advisors are expected to involve students by encouraging them to ask questions, gather information, and explore options so that they may develop a meaningful academic plan. Advisors will be available to students on a regular basis, monitor their advisees’ progress, assist in considering career options, and make appropriate referrals to other campus offices.

www.cmu.edu/student-affairs/theword/resources/index.html
Registration

Spring 2016 Registration Week: November 16-20
Fall 2016 Registration Week: April 18-22

Students register for most courses electronically through Student Information Online (SIO). Information regarding the procedure is distributed by email and through the Tartan prior to registration each semester.

www.cmu.edu/hub/registration/undergraduates

Adding and Dropping Classes
After the first two weeks of classes, students must meet with their BXA Academic Advisor before adding and/or dropping classes in order to discuss the impact on degree requirements or the appropriateness of overloading.

Following university policy, students may add or drop a course during the first ten class days of each semester. Classes may be dropped online during the first ten weeks. When a course is dropped by this deadline, the course does not appear on the permanent record.

After the deadline to drop courses online, students may withdraw from a course with the approval of their BXA Academic Advisor until the last class day of the semester. After the deadline to drop online, a “W” (withdrawal) is assigned and appears on the student’s academic record. Undergraduates who are registered as full-time students as of the 10th day of classes are expected to remain full-time for the duration of the semester. Full-time is defined as a minimum of 36 units. Permission to drop below the 36 unit minimum must be granted by the CFA College Council. Undergraduates who are registered as part-time are also subject to the above deadlines to drop or withdraw from a course.

NOTE: Not all colleges have the same deadlines, nor are the same deadlines in effect for mini-courses. Students registered for mini-courses or courses in another college, should check the university calendar for deadlines.

Class Standing
According to university policy, a full-time student is one who is registered in a degree program for 36 or more units. Sophomore status is achieved when a student earns passing grades in a minimum of 72 units; junior status is achieved when a student earns a minimum of 164 units; and senior status is achieved when a student earns 263 units. Changes in class standing occur only for the fall semester.

Overloads
Freshmen are limited to the normal schedule of 45-54 units in the first semester of attendance. Thereafter, students may carry additional units, provided they have earned at least a 3.0 grade point average in the previous semester. Students should contact their BXA Academic Advisor to request an increase in maximum units once registration week has ended.

www.cmu.edu/hub/registration/undergraduates/overload.html

Cross-Registration
Carnegie Mellon University is a member of the Pittsburgh Council on Higher Education (PCHD), a consortium which allows students from any one of its member institutions to cross-register for any other during the fall and spring semesters. Participating institutions include Carlow University, Chatham University, Community College of Allegheny County, Duquesne University, LaRoche College, Point Park University, Pittsburgh Theological Seminary, Robert Morris University and the University of Pittsburgh. Following is the policy statement to which all cooperating institutions adhere:

1. The opportunity to cross-register is open to each full-time student. Part-time students are not permitted to cross register. Students must be registered for 36 units at Carnegie Mellon University before processing a cross-registration request.
2. Students register with their home institution registrar. Each college or university accepts registration from the other institutions; however, first priority in registration is given to students of the host college, and not all departments or schools in all institutions are able to participate in this program.
3. In each case of cross-registration the signature of the Director of the BXA Intercollege Degree Programs must be obtained prior to registration.
4. Each student’s advisor is responsible for assuring eligibility for the course.
5. Full credit and grade will be transferred; the academic regulations of the host institution will prevail.
6. The academic honesty code and other rules of conduct of the institution providing instruction apply with respect to its courses and behavior on its campus. That institution also determines whether its rules have or have not been violated. Your own institution will impose such penalties as it considers proper when violations are reported to it.
7. Cross-registrants do not acquire student status in the host institution (for purposes of participation in student activities, insurance programs, etc.). Library privileges at the host institution are available. Course texts may be purchased at the host bookstore.
8. Students may enroll in no more than one course off campus in any one term or semester.
9. Cross-registration does not apply to summer sessions.
10. Adding or dropping a course after the home institution’s deadline requires permission from the host institution; after the host institution’s deadline, permission from the host institution.

Cross-registration forms are available online:
www.cmu.edu/hub/registration/undergraduates/cross
Internships
To register for an internship for academic credit, each school/department has different guidelines and requirements. Students interested in completing an internship to receive BXA credit can obtain an Internship Agreement Form from their BXA Academic Advisor in the BXA office. Students with approved internships will be registered for course 52-590. Students can earn 3, 6, 9, or 12 units of pass/no pass credit for the BXA Internship. Only one BXA Internship can be counted to fulfill degree requirements.

www.cmu.edu/interdisciplinary/programs/internships.html

Pittsburgh Filmmakers/Pittsburgh Glass Center
All Carnegie Mellon University students may register for classes at Pittsburgh Filmmakers and Pittsburgh Glass Center during the fall and spring semesters. These courses are offered at the Filmmakers’ facility at 477 Melwood Avenue in North Oakland or the Glass Center’s facility at 5472 Penn Avenue in the East End. The College of Fine Arts, CFA 100 handles registration during university registration week. Course descriptions are available online at www.pghfilmmakers.org and www.pittsburghglasscenter.org.

Please direct questions about Pittsburgh Filmmakers and Pittsburgh Glass Center courses to Svenja Drouven in CFA 100, or email sdrouven@andrew.cmu.edu.

Study Abroad
Registration for study abroad requires a special form, the Study Abroad Transfer Credit (SATC) form, that can be obtained in the Office of International Education. Registering for study abroad through another institution allows the student to retain Carnegie Mellon University student status, but without financial obligation to the university. Registering for an exchange program establishes the student’s status as an active Carnegie Mellon University student with only tuition liability. Students may not study abroad the spring semester of their senior year.

The Study Abroad Advisor is:
Christine Menand
Office of International Education, Warner Hall 322
Tel: 412-268-5231, email: cmenand@andrew.cmu.edu

Students should let the BXA office know that they will be studying abroad, and meet with their BXA Academic Advisor before and after their return to discuss transfer credits. Once the students’ official transcript is received from the institution abroad, approved transfer credit will be added to their Carnegie Mellon University record.

www.studentaffairs.cmu.edu/oie/sab

Undergraduate Research Projects
To register for the BXA Undergraduate Research Project students must obtain a faculty project advisor and submit a completed application and project proposal to their BXA Academic Advisor. Students with approved projects will be registered for course 52-390. Students can earn 3, 6, 9, or 12 units of academic credit (a letter grade) per semester.

www.cmu.edu/interdisciplinary/programs/research.html

Transcripts
Official transcripts are required for such situations as application to study abroad programs, graduate programs, and potential employment. In most cases, the transcript must be mailed from the HUB directly to a designated person in another institution. Sometimes a transcript must be mailed along with an application. The HUB will either mail the transcript directly to the institution or to the student, depending upon request.

Carnegie Mellon University has partnered with Credentials Solutions to provide online transcript ordering. Transcripts may be ordered for electronic delivery, USPS first class mail, express delivery, or walk-in service at The HUB.

Currently enrolled students can log in through Student Information Online to access online transcript ordering with no further authorization needed. Students are responsible for the accuracy of their record and should report any found errors.

www.cmu.edu/hub/records/transcripts

Transfer and AP/IB Credit Evaluation
Transfer of credit is considered on an individual basis. Carnegie Mellon University course credit for equivalent courses taken at another college or university may be granted when the grade is a “C” or better. Elective credit may be awarded for courses with no equivalent at Carnegie Mellon University. Grades do not transfer—only credits transfer.

Credit may be awarded for Advanced Placement (AP) scores of 4 or 5 following the guidelines established by each school/department at Carnegie Mellon University. Students are responsible for having AP scores sent to Carnegie Mellon University.

Credit may also be awarded for International Baccalaureate (IB) scores. Students are responsible for having IB scores sent to Carnegie Mellon University.

If additional information concerning AP/IB or transfer credits is needed, students should contact their BXA Academic Advisor.

www.cmu.edu/hub/registration/undergraduates/ap.html
Academic Regulations, Requirements & Procedures

Academic Actions

The academic performance of each student is reviewed at the end of each semester. Academic actions are initiated by the Director of the BXA Intercollege Degree Programs when students have not met minimum academic progress standards. A recommendation is presented to the associate deans of the appropriate colleges and Academic Actions Committee of the College of Fine Arts for confirmation. An appeals process is available to the student. The academic actions listed below do not follow a particular sequence; any of these actions may be imposed at any time.

BHA Academic Actions

BHA students are expected to maintain a 3.0 quality point average (QPA). If a student’s QPA falls below 3.0 at the end of the semester this signals an advising response. The student will be asked to meet with the Director of the BHA Program to discuss strategies to improve his/her academic performance.

If a student has two consecutive semesters with a QPA below 3.0, the Director will meet with the student and carefully evaluate the situation in consultation with the student's advisors in DC and CFA. If it seems in the best interest of the student, the student may be advised to transfer out of the BHA Program and into DC or CFA.

Warning
A Warning is intended to notify the student of unsatisfactory performance and to suggest that the student take steps to determine and correct the cause of the difficulty. A Warning is imposed when a student receives a “D” in a required DC concentration course, or if the student’s semester QPA is between a 2.0 and 2.49, or if the cumulative QPA drops below a 2.75.

Conditions for removing a Warning: the student must receive at least a 3.0 QPA in the following semester, and at least a 2.75 cumulative QPA, with at least 36 units, no incompletes, and no grades less than a “C”. Otherwise the student may continue on Warning, or, depending on individual grades, the action could escalate to Probation, Final Probation, or Drop from the BHA Program.

Probation
Probation is imposed when a student receives a “D” or “R” grade in a required CFA concentration course, or an “R” in a required DC course, or if the student’s semester QPA is below a 2.0.

Conditions for removing Probation: the student must receive at least a 3.0 QPA in the following semester, with at least 36 units, no incompletes and no grades less than a “C”. The student will be moved to Warning if they meet these conditions, but the cumulative QPA is still between 2.5 and 2.75. Otherwise the student may continue on Probation, or, depending on the individual grades, the action could escalate to Final Probation, or Drop from the BHA Program.

Final Probation
Final Probation is imposed when a student receives two or more “D” or “R” grades in required H&SS or CFA concentration courses, or if the student’s semester QPA is below 2.0 (1.75 for freshmen) for the second consecutive semester.

BSA Academic Actions

BSA students are expected to maintain a 3.0 quality point average (QPA). If a student’s QPA falls below 2.75 at the end of the semester this signals an advising response. The student will be asked to meet with the Director of the BSA Program to discuss strategies to improve their academic performance.

If a student receives “C” and “D” grades in calculus and/or physics courses the student will be required to consult with their MCS advisor to discuss strategies to improve their academic performance.

If a student has two consecutive semesters with a QPA below 2.75, the Director will meet with the student and carefully evaluate the situation in consultation with the student’s advisors in MCS and CFA. If it seems in the best interest of the student, the student may be advised to transfer out of the BSA Program and into MCS or CFA.

Warning
A Warning is intended to notify the student of unsatisfactory performance and to suggest that the student take steps to determine and correct the cause of the difficulty.
A Warning is imposed when a student receives a “D” in a required MCS concentration course, or if the student’s semester QPA is between 2.0 and 2.49, or if the cumulative QPA drops below 2.75.

Conditions for removing a Warning: the student must receive at least a 3.0 QPA in the following semester, and at least a 2.5 cumulative QPA, with at least 36 units, no incompletes, and no grades less than a “C”. Otherwise the student may continue on Warning, or, depending on individual grades, the action could escalate to Probation, Final Probation, or Drop from the BSA Program.

**Probation**

Probation is imposed when a student receives a “D” or “R” grade in a required CFA concentration course, or an “R” in a required MCS course, or if the student’s semester QPA is below 2.0.

Conditions for removing Probation: the student must receive at least a 3.0 QPA in the following semester, with at least 36 units, no incompletes and no grades less than a “C”. The student will be moved to Warning if they meet these conditions, but the cumulative QPA is still between 2.5 and 2.75. Otherwise the student may continue on Probation, or, depending on the individual grades, the action could escalate to Final Probation, or Drop from the BSA Program.

**Final Probation**

Final Probation is imposed when a student receives two or more “D” or “R” grades in required MCS or CFA concentration courses, or if the student’s semester QPA is below 2.0 (1.75 for freshmen) for the second consecutive semester.

Conditions for removing Final Probation: the student must receive at least a 3.0 QPA in the following semester, with at least 36 units, no incompletes, and no grades less than a “C”. The student will be moved to Probation if they meet these conditions but their cumulative QPA is still between 2.0 and 2.49. They will be moved to Warning if they meet these conditions but their cumulative QPA is between 2.5 and 2.75. Otherwise the student may continue on Final Probation or, depending on individual grades, the action could escalate to Drop from the BSA Program.

**Drop from the BSA Program**

If a student has two consecutive semesters receiving “D” or “R” grades in required MCS and/or CFA concentration courses, the Director will carefully evaluate the student’s situation in consultation with the student’s MCS and CFA advisors. At this time, the student may be advised to transfer out of the BSA Program, or they may be dropped from the BSA Program.

If a student has two consecutive semesters with a cumulative QPA below 2.5, and the student shows no progress or improvement in their academic performance, they will be dropped from the BSA Program.

If a student is dropped from BSA, they may be able to successfully transfer into MCS or CFA as a traditional full major, depending on their academic performance. If the student is doing poorly in both MCS and CFA courses, then the student should consider the following options:

• Transfer to another department/school within the university. The student is responsible for contacting the department/school of choice to discuss possible transfer.
• Request Transitional Student status in the College of Fine Arts for one semester. A student must make an appointment with the Associate Dean of the College of Fine Arts to discuss this option.
• Withdraw from Carnegie Mellon University. A Withdrawal/Leave of Absence form is available in the BSA office or in Enrollment Services.

**BCSA Academic Actions**

BCSA students are expected to maintain a 3.0 quality point average (QPA). If a student’s QPA falls below 2.5 at the end of the semester this signals an advising response. The student will be asked to meet with the Director of the BCSA Program to discuss strategies to improve his/her academic performance.

If a student receives “C” or “D” grades in computer science courses (15-xxx) the student will be required to consult with their SCS advisor to discuss strategies to improve their academic performance.

If a student has two consecutive semesters with a QPA below 2.5, the Director will meet with the student and carefully evaluate the situation in consultation with the student’s advisors in SCS and CFA. If it seems in the best interest of the student, the student may be advised to transfer out of the BCSA Program and into SCS or CFA.

**Warning**

A Warning is intended to notify the student of unsatisfactory performance and to suggest that the student take steps to determine and correct the cause of the difficulty. A Warning is imposed when a student’s cumulative QPA drops below a 2.75.

Conditions for removing a Warning: the student must receive at least a 3.0 QPA in the following semester, and at least a 2.5 cumulative QPA, with at least 36 units, no incompletes, and no grades less than a “C”. Otherwise the student may continue on Warning, or, depending on individual grades, the action could escalate to Probation, Final Probation, or Drop from the BCSA Program.

**Probation**

Probation is imposed when a student receives a “D” or “R” grade in a required CFA concentration course, or an “R” in a required SCS course, or if the student’s semester QPA is below 2.0 (1.75 for freshmen).

Conditions for removing Probation: the student must receive at least a 3.0 QPA in the following semester, with at least 36 units, no incompletes, and no grades less than a “C”. The student will be moved to Warning if they meet these conditions, but the cumulative QPA is still between 2.5 and 2.75. Otherwise the student may continue on Probation, or, depending on the individual grades, the action could escalate to Drop from the BCSA Program.
Academic Regulations, Requirements & Procedures, Continued

Conditions for removing Final Probation: the student must receive at least a 3.0 QPA in the following semester, with at least 36 units, no incompletes, and no grades less than a “C”. The student will be moved to Probation if they meet these conditions but their cumulative QPA is still between 2.0 and 2.49. They will be moved to Warning if they meet these conditions but their cumulative QPA is between a 2.5 and 2.75. Otherwise the student may continue on Final Probation or, depending on individual grades, the action could escalate to Drop from the BCSA Program.

Drop from the BCSA Program
If a student has two consecutive semesters receiving “D” or “R” grades in required SCS and/or CFA concentration courses, the Director will carefully evaluate the student’s situation in consultation with the student’s SCS and CFA advisors. At this time, the student may be advised to transfer out of the BCSA Program, or they may be dropped from the BCSA Program.

If a student has two consecutive semesters with a cumulative QPA below 2.0, and the student shows no progress or improvement in their academic performance, they will be dropped from the BCSA Program.

If a student is dropped from BCSA, they may be able to successfully transfer into SCS or CFA as a traditional full major, depending on their academic performance. If the student is doing poorly in both SCS and CFA courses, then the student should consider the following options:

- Transfer to another department/school within the university. The student is responsible for contacting the department/school of choice to discuss possible transfer.
- Request Transitional Student status in the College of Fine Arts for one semester. A student must make an appointment with the Associate Dean of the College of Fine Arts to discuss this option.
- Withdraw from Carnegie Mellon University. A Withdrawal/Leave of Absence form is available in the BCSA office or in Enrollment Services.

School Suspension
School Suspension is not applicable to the BHA, BSA, and BCSA Programs.

University Suspension
University Suspension is imposed for exceptionally poor performance or for personal problems that create an impediment to any academic achievement. The student is required to withdraw from the university for a specific period. Re-admission is subject to conditions specified in each case by the Director of the BXA Intercollege Degree Programs.

Study Abroad While on Academic Action
BXA students with a cumulative QPA between 2.5 - 3.0 wishing to spend a semester abroad will need the Director’s special permission.

BXA students with a cumulative QPA below 2.5 will not be allowed to pursue studies abroad.

Academic Regulations, Requirements & Procedures, Continued

Disabilities
Students with a learning disability or a physical disability are encouraged to email access@andrew.cmu.edu. The circumstances will remain confidential to the extent desired. The university has a formal procedure for documenting disabilities, notifying advisors and faculty, and making arrangements to utilize university resources in support of expressed needs, but will take no action until contacted by the student. The BXA Academic Advisors will work with the student to coordinate assistance.

www.cmu.edu/hr/eos/disability/students

Privacy Policy
Carnegie Mellon values the student’s right to privacy. The university adheres to a federal law called the Family Educational Rights and Privacy Act (also called FERPA or the Buckley Amendment) that sets privacy standards for student educational records and requires institutions to publish a compliance statement, including a statement of related institutional policies.

With certain exceptions, Carnegie Mellon officials will not disclose personally identifiable information from a student’s education records without the student’s prior written consent. If a student would like to give consent to a parent or family member to have access to some or all of his or her educational records, the student must complete a Consent to Release Information form and return it to The HUB.

www.cmu.edu/hub/ferpa.html

Grading Policies
University grading policies may vary depending on the particular school/department. Please consult the The WORD, Carnegie Mellon University’s student handbook.

www.cmu.edu/student-affairs/theword/acad_standards/creative/grading-policies.html

BHA, BSA, & BCSA Intercollege Deans’ List
Students who earn 36 graded units (no “pass/no pass” grades) with a grade point average of 3.5 or higher, no “incompletes” and “no grades” qualify for the BHA, BSA, or BCSA Intercollege Deans’ List. The Intercollege Deans’ List honors are posted in the BXA office each semester.

BHA, BSA, & BCSA Intercollege Honors
BHA, BSA, and BCSA students who successfully complete a BXA Capstone project under the guidance of a faculty member will graduate with BHA, BSA, or BCSA Intercollege Honors if all of the following conditions are met:

- grade of “A” achieved in 52-401 and 52-402
- overall QPA of 3.25 or higher
- research results presented at Meeting of the Minds Undergraduate Research Symposium

As a citizen of two colleges, a BHA, BSA, or BCSA student also has the opportunity to graduate with DC College Honors, CFA College Honors, and/or MCS College Honors. These particular honors are defined by each college. Students will receive honors color cords during the CFA Commencement Honors Ceremony.
University Honors
Students who graduate with an overall QPA of 3.5 or higher will graduate with University Honors. Students will receive an honors medallion during the CFA Commencement Honors Ceremony.

BHA, BSA, & BCSA Internal Transfer Process
For current Carnegie Mellon students who wish to apply to the BHA, BSA, or BCSA program, an internal transfer application process takes place in both the fall and spring semester. Applications are available online and in the BXA office and are reviewed by a committee of BHA, BSA, and BCSA advisors in October and in March.

www.cmu.edu/interdisciplinary/admissions/transfer.html

Withdrawal or Leave of Absence
A student who decides to leave the university must meet with the Director of the BXA Intercollegiate Degree Programs and complete a Withdrawal or Leave of Absence form located in the BXA office or the HUB. Withdrawal means leaving the university with no intention of returning. Leave of Absence means temporarily leaving the university with a stated intention to return. A withdrawal or leave of absence from the university at any time up to and including the last day of classes (excluding the final examination period), means that no grades will be recorded for the semester. Financial responsibility for the semester is dependent upon the date of and the reasons for filing the form. Questions about financial responsibility should be directed to the HUB.

A leave of absence may be voluntary or involuntary. If the leave is voluntary, the student may return any time within four years following the beginning of the leave by filing an Application for Return from Leave of Absence form. If the leave is involuntary, that is, required for academic or disciplinary reasons, the conditions for return will be stated.

www.cmu.edu/hub/registration/leave.html

Academic Regulations, Requirements & Procedures, Continued

University Code

Carnegie Mellon University Code

Students at Carnegie Mellon, because they are members of an academic community dedicated to the achievement of excellence, are expected to meet the highest standards of personal, ethical and moral conduct possible. These standards require personal integrity, a commitment to honesty without compromise, as well as truth without equivocation and a willingness to place the good of the community above the good of the self. Obligations once undertaken must be met, commitments kept.

As members of the Carnegie Mellon community, individuals are expected to uphold the standards of the community in addition to holding others accountable for said standards. It is rare that the life of a student in an academic community can be so private that it will not affect the community as a whole or that the above standards do not apply.

The discovery, advancement and communication of knowledge are not possible without a commitment to these standards. Creativity cannot exist without acknowledgment of the creativity of others. New knowledge cannot be developed without credit for prior knowledge. Without the ability to trust that these principles will be observed, an academic community cannot exist. The commitment of its faculty, staff and students to these standards contributes to the high respect in which the Carnegie Mellon degree is held. Students must not destroy that respect by their failure to meet these standards. Students who cannot meet them should voluntarily withdraw from the University.

Policy on Academic Integrity

Policy Statement: In any manner of presentation, it is the responsibility of each student to produce her/his own original academic work. Collaboration or assistance on academic work to be graded is not permitted unless explicitly authorized by the course instructor(s). Students may utilize the assistance provided by Academic Development, the Global Communication Center, and the Academic Resource Center (CMU-Q) unless specifically prohibited by the course instructor(s). Any other sources of collaboration or assistance must be specifically authorized by the course instructor(s).

In all academic work to be graded, the citation of all sources is required. When collaboration or assistance is permitted by the course instructor(s) or when a student utilizes the services provided by Academic Development, the Global Communication Center, and the Academic Resource Center (CMU-Q), the acknowledgement of any collaboration or assistance is likewise required. This citation and acknowledgement must be incorporated into the work submitted and not separately or at a later point in time. Failure to do so is dishonest and is subject to disciplinary action.

Instructors have a duty to communicate their expectations including those specific to collaboration, assistance, citation and acknowledgement within each course. Students likewise have a duty to ensure that they understand and abide by the standards that apply in any course or academic activity. In the absence of such understanding, it is the student’s responsibility to seek additional information and clarification.

Policy Violations: Cheating occurs when a student avails her/himself of an unfair or disallowed advantage which includes but is not limited to:

1. Theft of or unauthorized access to an exam, answer key or other graded work from previous course offerings.
University Code, Continued

2. Use of an alternate, stand-in or proxy during an examination.
3. Copying from the examination or work of another person or source.
4. Submission or use of falsified data.
5. Using false statements to obtain additional time or other accommodation.
6. Falsification of academic credentials.

Plagiarism is defined as the use of work or concepts contributed by other individuals without proper attribution or citation. Unique ideas or materials taken from another source for either written or oral use must be fully acknowledged in academic work to be graded. Examples of sources expected to be referenced include but are not limited to:

1. Text, either written or spoken, quoted directly or paraphrased.
2. Graphic elements.
3. Passages of music, existing either as sound or as notation.
5. Scientific data.
6. Concepts or material derived from the work, published or unpublished, of another person.

Unauthorized assistance refers to the use of sources of support that have not been specifically authorized in this policy statement or by the course instructor(s) in the completion of academic work to be graded. Such sources of support may include but are not limited to advice or help provided by another individual, published or unpublished written sources, and electronic sources. Examples of unauthorized assistance include but are not limited to:

1. Collaboration on any assignment beyond the standards authorized by this policy statement and the course instructor(s).
2. Submission of work completed or edited in whole or in part by another person.
3. Supplying or communicating unauthorized information or materials, including graded work and answer keys from previous course offerings, in any way to another student.
4. Use of unauthorized information or materials, including graded work and answer keys from previous course offerings.
5. Use of unauthorized devices.
6. Submission for credit of previously completed graded work in a second course without first obtaining permission from the instructor(s) of the second course. In the case of concurrent courses, permission to submit the same work for credit in two courses must be obtained from the instructors of both courses.

Procedures for dealing with allegations of these policy violations are detailed in the university’s Academic Disciplinary Action Procedures for Undergraduate Students and the Academic Disciplinary Action Procedures for Graduate Students, which are published in the WORD student handbook. Periodic review of these procedures will be overseen by the Dean of Student Affairs or her/his designee in consultation with Faculty Senate and the relevant student governing bodies. Any amendments to these procedures are subject to the approval of Faculty Senate. Additional guidelines and procedures for graduate students may exist at the college/department/program level, in which case they are communicated in the college/department/program graduate student handbook.

www.cmu.edu/policies/student-and-student-life/academic-integrity.html

Undergraduate Academic Disciplinary Actions

Initial Review, Decision and Action(s): Initial review, decision and action(s) shall remain local, to involve the course instructor(s) and, if desired, consultation with a third party from the faculty, the department/program head or associate head, or the dean of student affairs (please be aware that local action must be reported as indicated in the section below, Reporting of Initial Action(s)). Instructors are free to discuss alleged violations informally with the student(s) thought to be involved, but should avoid revealing the identity of other students involved, if at all possible. Suspected violations that would result in a penalty should be handled by the instructor(s), in direct communication with the student(s) involved, within one week of the discovery of the suspected infraction and before the imposition of a penalty.

After discussion with the student(s) involved and their response, the instructor(s) shall conclude, within a reasonable period of time and based on available evidence, whether the suspected violation(s) occurred. Instructors (including Teaching Assistants (TAs), in consultation with the faculty member in charge of the course in question) are encouraged to consult at this stage with their department/program head, their dean’s office and the dean of student affairs about the nature of the suspected violations, the nature of the evidence of these violations and the range of penalties under consideration. If the conclusion is that the suspected violation(s) did occur, the instructor(s) shall also choose an appropriate penalty. The most severe penalty at this level of review and action shall be failure in the course, although instructors and their departments may also recommend a more severe penalty (or additional penalties) as outlined below under Second-level Review and Action(s).

The instructor(s) shall, immediately and in writing, notify the student(s) involved of this decision, the basis for this decision and (when applicable) the penalty imposed. Students who have actual or pending academic disciplinary action may not drop the course in question, barring explicit approval from the faculty member. Students should also be informed at this time of their right (and attendant procedures) for appeal.

Reporting of Initial Action(s): A copy of the letter outlining the initial decision and action to the student(s) involved in cases of academic disciplinary violations should also be directed to the following parties:

- Department/program head of the course involved
- Dean’s office of the student’s college
- Dean’s office of the college housing the course in which the violation(s) occurred (if different from the student’s college)
- The student’s major department
- The dean of student affairs

The dean of student affairs will be responsible for coordinating all second-level action detailed below and will maintain the central record of academic disciplinary violations and actions.

Second-level Review and Action(s): Normally, a second-level review of an initial decision and action follows from one or more of three sources:

1. Recommendation by the instructor, department or college for a more severe penalty;
2. Recommendation by the dean of student affairs (e.g., in cases in which there are one or more prior incidents of academic disciplinary violations in the student(s)’ record);
3. Appeal by the student(s) involved.

Student Appeals: In general, students who want to appeal an academic disciplinary action
University Code, Continued

must state in writing to the dean of student affairs their intention do so within one week of the penalty date in question and then must present their appeal to the dean of student affairs no later than two weeks after said penalty date. Appeals must be in writing, with appropriate documentation.

When a second-level review is warranted, the dean of student affairs shall immediately convene an Academic Review Board to consist of at least five members drawn from the Associate Deans’ Council (including the associate provost for academic projects), designates of Faculty Senate and the Student Government, of which two shall be students. The board must include at least one member from the college(s) represented by the parties. If a student appeal and a review of a recommendation for second-level action occur simultaneously, both shall be considered by this Review Board simultaneously. Where appropriate, it is expected that the instructor(s) from the course/project involved (or appropriate representatives designated by the department) will be available for participation or at least for consultation. The board shall be chaired by the dean of student affairs who will not have a vote on the board. The parties shall be informed in writing of the date, time and location of this review.

The Academic Review Board shall (a) review the facts of incidents involved and (b) make a recommendation about second-level action to the dean of student affairs. The dean of student affairs shall then render a decision in writing to the student, with copies to:

• The instructor(s) in the course in question
• Department/program head of the course involved
• Dean’s office of the student’s college
• Dean’s office of the college housing the course in which the violation(s) occurred (if different from the student’s college)
• The student’s major department

This decision is subject to appeal, by either party, to the president of the university.

www.cmu.edu/academic-integrity/headernav/policies.html

Statement of Assurance
Carnegie Mellon University does not discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status, or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders.

Inquiries concerning the application of and compliance with this statement should be directed to the university ombudsman, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-1018.

Carnegie Mellon University publishes an annual campus security and fire safety report describing the university’s security, alcohol and drug, sexual assault, and fire safety policies and containing statistics about the number and type of crimes committed on the campus and the number and cause of fires in campus residence facilities during the preceding three years. You can obtain a copy by contacting the Carnegie Mellon Police Department at 412-268-2323. The annual security and fire safety report is also available online at www.cmu.edu/police/annualreports.

University Resources

Some common resources are listed below. Links to additional student resources are conveniently compiled online at http://www.cmu.edu/current-students/index.html and http://www.cmu.edu/student-affairs/theword/resources/index.html.

Academic Development
Academic counseling, peer tutoring, supplemental instruction, and collaborative learning groups are offered in Cyert Hall suite B5 through Academic Development.

www.cmu.edu/acadev/programs

Career and Professional Development Center
The Career and Professional Development Center offers career counseling and information about internships and employment through the Advising Center located on the second floor of West Wing. Students may visit the career library or sign-up for a workshop or seminar. They can also assist you in making a fabulous resume. The Interview Center for employer relations and on-campus recruiting activities is located on the lower level of the Cohon University Center. Information is regularly posted on the website.

www.studentaffairs.cmu.edu/career

Carnegie Mellon Advising Resource Center (CMARC)
CMARC is an advising and information center designed to assist undergraduate students of all majors in their academic and social development from their first-year through graduation.

www.cmu.edu/cmarc

Counseling and Psychological Services (CAPS)
Located in Morewood Gardens E Tower, Second Floor, the CAPS office is staffed by professionals trained to deal with problems that may impede academic progress, for example, dealing with stress or depression, or working through a difficult personal situation or relationship. Office hours are Monday through Friday between 8:30 a.m. and 5:00 p.m. Emergency help is available 24-hours a day, x8-2922.

www.studentaffairs.cmu.edu/counseling

Health Services
Located in Morewood Gardens E Tower, first floor room 144, Student Health Services offers the same range of services provided by any doctor's office, but at a fraction of the cost. Visit the website for hours and details on the many ways health services can help you. If you are enrolled in the student health insurance plan, most clinic services are covered in full. Labwork usually generates a fee, however. Call x8-2157 for an appointment or Campus Police x8-2323 for medical emergencies when the Health Service is closed.

www.studentaffairs.cmu.edu/HealthServices

www.studentaffairs.cmu.edu/career
University Resources, Continued

The HUB
The HUB, Warner Hall concourse level, is your one-stop shop for enrollment services. The HUB has a 24-hour hotline, x8-8686. The HUB is comprised of the Cashier’s Office, Financial Aid Office, and the Office of the Registrar, all in one place. Visit the HUB to:

• ask enrollment and financial aid questions
• pick up and drop off academic and financial aid forms
• resolve enrollment problems
• order official transcripts and enrollment verifications
• pick up course schedules, invoices, validation stickers, etc.
• make appointments to meet with staff members
• obtain a student ID card

Hub Online Services include:

• Schedule of Classes (SOC)
• Student Information Online (SIO)
• Academic Audit Report
• Faculty Course Evaluations (FCEs)
• Space Quest
• My Plaid Student
• Federal Student Loan Counseling

Office of International Education (OIE)
The Office of International Education (OIE), located in Warner Hall 301, is the resource center for information about opportunities for study abroad, student travel, temporary employment, and internships. OIE processes registration for a student’s semester abroad. Christine Menand, Coordinator of Study Abroad and Exchange Programs, email: cmenand@andrew.cmu.edu.

www.studentaffairs.cmu.edu/oie

Student Affairs Office
Gina Casalegno, the Dean of Student Affairs, and professionals in this office are concerned with student growth and welfare as members of both the university’s academic and social communities. The Student Affairs Office is the best place to start to resolve non-academic problems. These problems may include missing several classes due to illness or family crisis.

www.studentaffairs.cmu.edu

Scholarships and Fellowships Office (FSO)
The Fellowship and Scholarship Office provides support to Carnegie Mellon students who are interested in securing external scholarships and fellowships. The office works with students to help them develop competitive applications, identifies and supports faculty and staff representatives for a select number of prestigious scholarships and fellowships, maintains a searchable database of external scholarship and fellowship opportunities and manages campus selection processes. Stephanie Wallach, Director of FSO, email: sw4s@andrew.cmu.edu.

www.cmu.edu/fso

Security
Carnegie Mellon University is an urban campus with most facilities open to students 24 hours a day. In giving around-the-clock access to students, the university becomes open to access by the uninvited. Though campus security officers patrol buildings on a regular basis, at night when the campus population and activity are diminished, students need to take precautions for their personal safety. Working with a partner is recommended. Any student working in a space for which there is key access should keep the space locked. Doors should never be propped open. Students should become familiar with the facilities, the nearest security phones and the quickest exit route from buildings.

Campus Security offers a shuttle service between 7:00 a.m. and 10:30 p.m. to take students between academic buildings and dormitories or to off-campus university housing. An escort service is available during hours when the shuttle is not available. The Student Information Desk in the University Center has detailed information.

This advice comes not from a history of incidents, but an acknowledgment that the potential for problems exists. Generally, the campus is a safe environment.

Carnegie Mellon University publishes an annual campus security report describing the university’s security, alcohol and drug, and sexual assault policies and containing statistics about the number and type of crimes committed on the campus during the preceding three years. You can obtain a copy by contacting the Carnegie Mellon University Police Department at 412-268-2323. The security report is also available online.

www.cmu.edu/police

Undergraduate Research Office (URO)
The Undergraduate Research Office provides seed funds for undergraduate research projects, recognizes students conducting research, funds undergraduates presenting their findings at academic conferences, and presents an annual undergraduate research symposium. The program is available to students from each of the university’s six undergraduate colleges. The URO Office has proven extremely successful in encouraging students to pursue graduate studies and research careers.

www.cmu.edu/uro
Outside the Classroom

Lectures and Events

Robert Lepper Distinguished Lecture Series in Creative Inquiry
This lecture series is endowed by alumnus Russell Cameron, A’41, in honor of the late Professor Robert Lepper, A’23. Lecturers from a broad range of disciplines “provide unique, articulate examples of social engagement and private searching which evidence wonder, inspire imagination and encourage experimentation.”

WATS:ON? Festival
The Jill Watson Festival of the Arts is an annual event in the College of Fine Arts in the memory of Jill Watson, a graduate of the School of Architecture and student in the MFA program of the School of Art. This event honors Jill Watson’s commitment to an interdisciplinary philosophy as an artist, and celebrates her accomplishments and reputation as an architect.

University Lecture Series
The University Lecture Series features lectures and performances by a broad spectrum of speakers and scholars on a wide and diverse range of topics. Potential lecture ideas are suggested by Carnegie Mellon University students, faculty and staff. This Series is a partnership between the Office of the Vice Provost for Education and the Division of Student Affairs. All lectures are free and open to the public and are on Carnegie Mellon University’s Oakland campus.

www.cmu.edu/uls

The University Community
Watch university hallway and electronic bulletin boards and campus newspapers for interesting campus events.

The Bridge
The Bridge is an online pinboard to connect you with communities, organizations, and events both on campus and in the Pittsburgh area.

https://cmu.collegiatelink.net

BXA Housing Cluster
This living learning community, located on the third floor of Stever House, allows students in the BXA Intercollege Degree Programs to extend their classroom activities in a social setting with their peers.

BXA SAC Meetings
BXA Student Advisory Committee (SAC) meetings are usually held once a month between 4:30 p.m. and 5:30 p.m. These meetings provide a forum for students to discuss program objectives, listen to guest speakers, and initiate multidisciplinary collaborations. Students also share resources on different internships and study abroad opportunities. These gatherings help students become more familiar with the work of their peers and fosters a sense of community within the three programs. Food is provided!

Outside the Classroom, Continued

Kaleidoscope
Kaleidoscope is the annual BXA spring exhibition of student artwork and performance. Students explore interdisciplinary ideas and collaborations, and present multimedia artworks, poetry readings, musical performances, documentation of architectural projects, drawings, paintings, and other artistic expressions.

Meeting of the Minds
The spring undergraduate research symposium, or Meeting of the Minds, is a university-wide celebration of undergraduate research. All Carnegie Mellon University undergrads engaged in research and creative projects are encouraged to apply. It is expected that BXA Capstone participants will present their projects and should register online.

www.cmu.edu/uro/MoM

Center for the Arts in Society
The Center for the Arts in Society is a formal center of study dedicated to energizing research and teaching that links the Dietrich College of Humanities and Social Sciences with the College of Fine Arts. The Center supports graduate and undergraduate courses, faculty and student research projects, and collaborations with arts institutions in the Pittsburgh community. Members of the Center explore pressing issues such as cultural production and social responsibility, as well as developing new disciplinary approaches—visual anthropology, public arts policy, statistical graphics, and more.

www.cmu.edu/cas

Center for Iranian Music (CFIM)
The Center for Iranian Music strives to preserve and promote Iranian music, including traditional music (the Dastgah System), folk music (regional music of Iran), contemporary music, and commemorative and religious music. The Music of Iran fall course 52-430/57-430 is open to School of Music and BXA students.

http://centerforiranianmusic.org

STUDIO for Creative Inquiry
The Frank-Ratchye STUDIO for Creative Inquiry was founded in 1989 to support atypical, anti-disciplinary, and inter-institutional research projects at the intersections of arts, sciences, technology and culture. It carries out this mission by:

- Providing artist residencies with stipends, commissions and facilities.
- Maintaining a diverse work environment populated by a broad range of practitioners, including resident fellows, Carnegie Mellon University faculty and students, and other associates.
- Facilitating access to human and technical resources at Carnegie Mellon University and throughout the Pittsburgh region.
- Developing public venues for the presentation of innovative work.

http://studioforcreativeinquiry.org
Outside the Classroom, Continued

Campus Resources: Where to Go for What

**Arts Pass Program**
Students can gain free access to Pittsburgh venues throughout the year by swiping their Carnegie Mellon ID at the following institutions: Carnegie Museum of Art and Natural History, Carnegie Science Center & Highmark Sports Works, The Andy Warhol Museum, Mattress Factory, The National Aviary, and Phipps Conservatory & Botanical Gardens.

[www.cmu.edu/studentactivities/artspass/index.html](http://www.cmu.edu/studentactivities/artspass/index.html)

**Art Store (x8-2968)**
Located on the lower level of the Cohon University Center, the Art store has supplies needed for CFA studio courses.

**Athletics/Fitness & Recreation (x8-8551)**
The university offers a way to stay physically active including participation in athletics, club sports, intramurals, aquatics, and physical education with fitness facilities in the Cohon University Center, Skibo Gymnasium, and across campus.

[http://athletics.cmu.edu](http://athletics.cmu.edu)

**Computer Clusters**
There are many computer clusters throughout campus, the most convenient to CFA students are the CFA Multimedia Studio (open 24 hours, staffed between 8:00 am and 12:00 am) on the third floor of CFA and computer facilities in Hunt Library.

[www.cmu.edu/computing/clusters](http://www.cmu.edu/computing/clusters)

**Computer Sales (x8-2636)**
Located on the lower level of the Cohon University Center, Computer Sales stocks computers, tablets, accessories and peripherals, software, gaming consoles, and media storage options.

[www.cmu.edu/stores/computer](http://www.cmu.edu/stores/computer)

**Greek Life (x8-2142)**
For over 100 years, the Greek community at Carnegie Mellon University has had a long, rich tradition of fostering student involvement on campus. Since 1900, students have chosen to become members of fraternities and sororities because of the advantages the organizations provide including scholarship, leadership, service, and lifelong friendships.

[www.cmu.edu/student-affairs/slice/greek](http://www.cmu.edu/student-affairs/slice/greek)

**Hunt Library (x8-2444)**
In addition to the general collection, the reference section of the Hunt Library has numerous resource directories for many topics. The fourth floor Fine Arts Department holds the architecture, art, design, drama and music collections. See the Fine Arts Librarians for assistance. IDeATe@Hunt Collaborative Making Facility houses collaborative design studios open to all library users on the first floor and lower level.

[www.library.cmu.edu](http://www.library.cmu.edu)

Information Desk (x8-2107)
Located in the University Center, this is the place to find campus and student phone numbers and information about student activities, bus schedules, student organization mailboxes, tickets, and more.

[www.cmu.edu/university-center/infodesk](http://www.cmu.edu/university-center/infodesk)

Instructional Technology (x8-4357)
Instructional Technology, in room 119 of Cyert Hall, rents a broad range of audio/video equipment, and offers in-house equipment to view video cassettes, films or slides. Contact the Instructional Technology office for policies regarding rental fees, check out procedures and in-house use of equipment. Equipment for projects or exhibitions is rented at the student's own expense.

[www.cmu.edu/postoffice](http://www.cmu.edu/postoffice)

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Instructional Technology, in room 119 of Cyert Hall, rents a broad range of audio/video equipment, and offers in-house equipment to view video cassettes, films or slides. Contact the Instructional Technology office for policies regarding rental fees, check out procedures and in-house use of equipment. Equipment for projects or exhibitions is rented at the student's own expense.

[www.cmu.edu/postoffice](http://www.cmu.edu/postoffice)

**Postal Services (x8-2927)**
The campus Post Office is is located on the lower level of the Cohon University Center. This is the place to go if you need stamps, money orders, or UPS package delivery.

[www.cmu.edu/kinkos](http://www.cmu.edu/kinkos)

**Printing Services (x8-3737)**
The FedEx Office and Kinko's Print Services is located on the lower level of the Cohon University Center. It offers packing and shipping services, a variety of copying and printing services at student rates, as well as passport services.

[www.cmu.edu/kinkos](http://www.cmu.edu/kinkos)

**Security (x8-2323)**
The Office of Security provides 24-hour campus patrol, emergency medical transportation, escort services, a lost and found department, and other assistance to ensure safety and to protect property. Security also provides after hours access to certain locked university classrooms.

[www.cmu.edu/student-affairs/slice/greek](http://www.cmu.edu/student-affairs/slice/greek)

**Student Activities (x8-8704)**
There are a variety of ways to become more involved with others on and surrounding campus. The Office of Student Activities provides several avenues to learn about student organizations, explore Pittsburgh, and make an impact in the local community.

[www.cmu.edu/student-affairs/slice/greek](http://www.cmu.edu/student-affairs/slice/greek)

**University Bookstore (x8-2966)**
The University Store in the University Center is a one-stop shop for art supplies, textbooks, office supplies and gift items. The University Store carries required textbooks for all university courses. Textbooks are sold at a discount to students enrolled in those courses.

[http://bookstore.web.cmu.edu](http://bookstore.web.cmu.edu)
**Work Study/Grants**

**Work Study/Student Employment**

There are a number of part-time student positions in CFA, DC, MCS or SCS. Most require a commitment of 3 to 10 hours per week. Availability varies from semester to semester and jobs range from working in an administrative office to assisting with research projects. Students must be eligible for work study and must know the amount of their work study before applying. Obtain this information from the HUB. The HUB also keeps a listing of other work study and non-work study positions available throughout campus.

[www.cmu.edu/career/on-campus_employment](http://www.cmu.edu/career/on-campus_employment)

**BXA Small Grants**

The BXA Intercollege Degree Programs periodically have funds available to assist students who plan to work on an undergraduate research project, a capstone project, or other student project that requires a small budget. These funds are reserved for BXA students. Please keep in mind that funds are not always available for BXA small grants.

**Henry Armero Memorial Award for Inclusive Creativity**

The Armero Family has established the Henry Armero Memorial Award Fund to honor and further Henry's creative ideals. A $2,500 award will be granted annually through a project-focused application process. It will reward student projects with a focus on creativity, eclecticism, individuality, and inclusiveness. Projects should find innovative ways of fostering on- and off-line community. The award is open to undergraduate students in their junior year who are enrolled in the BXA Intercollege Degree Programs, the School of Art, or the School of Computer Science.

[www.cmu.edu/interdisciplinary/award](http://www.cmu.edu/interdisciplinary/award)

**SURG, SURG/Crosswalk, SURF, ISURG Grants**

The campus-wide Undergraduate Research Initiative encourages and supports independent student research and creative projects sponsored by university faculty. The Small Undergraduate Research Grants (SURG) provide monetary support, one-person up to $500 and groups up to $1,000, for many projects selected from a pool of applications. Each semester, students are invited to submit proposals for participation in SURG. To qualify, the project must be sponsored by a university faculty member and must be a project undertaken in addition to regularly scheduled classes. SURG/Crosswalk Grants are also available for student projects that cross two or more departments, colleges, or disciplines. This is an excellent opportunity for BXA students!

The Summer Research Fellowship program awards $3,500 to undergraduates at Carnegie Mellon for 8-10 full-time weeks of summer research in any field of study.

The International Small Undergraduate Research Grant (ISURG) is a program at Carnegie Mellon University, run jointly through the Undergraduate Research Office (URO) and the Office of International Education (OIE). ISURG allows students who are planning to study/travel abroad to apply for funds to support a research project while they are abroad. ISURG (like SURG) is open to undergraduates in all disciplines at Carnegie Mellon University to defray research expenses. Grants are offered to individual students for up to $500 for materials, supplies and possible travel related to the research project. All ISURG students must submit a proposal following the guidelines and deadlines for SURG.

[www.cmu.edu/uro](http://www.cmu.edu/uro)

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**Communication**

**General Communication**

BXA and university communications are generally through email. In addition to email, a bulletin board in the BXA office and others around the university still play a role in distributing information. Some information will be available only electronically, some only hard copy. Consider the information below to be general guideline.

**Address and Phone Number Changes**

Students can change their address online through SIO. This will only change the student's online information and does not communicate changes to payroll and human resources.

**Blackboard**

Many course instructors utilize Blackboard learning online at www.cmu.edu/blackboard to distribute course assignments, materials, grading, and host discussion boards. Departments may also make placement exams available through Blackboard.

**Electronic Information and Communication**

- **BXA Intercollege Degree Programs:** [www.cmu.edu/interdisciplinary](http://www.cmu.edu/interdisciplinary)
- **College of Fine Arts:** [www.cfa.cmu.edu](http://www.cfa.cmu.edu)
- **Dietrich College of Humanities & Social Sciences:** [www.cmu.edu/dietrich](http://www.cmu.edu/dietrich)
- **Mellon College of Science:** [www.cmu.edu/mcs](http://www.cmu.edu/mcs)
- **School of Computer Science:** [www.cs.cmu.edu](http://www.cs.cmu.edu)

**Email**

Faculty, staff and students regularly communicate with one another through email. Undergraduate students use Google Apps @ CMU to store documents, create appointments, and share files with others who use Google Apps. Students are expected to read email on a regular basis. Students will receive information and will be asked to respond to questions sent to their email address from faculty, staff, and other students. Treat email with the same discretion as any written document.

**Social Media**

The Social Media Directory provides access to the many social media channels offered across the university at [www.cmu.edu/social-media](http://www.cmu.edu/social-media). Most are updated weekly—some daily—to provide the most recent content from the campus community. Students, alumni, and friends of BXA can “Like” the BXA Facebook Page, follow @CMU_BXA on Twitter, network in the BXA Alumni Group on LinkedIn, and view BXA photos on Flickr and videos on YouTube.

**BXA Calendars**

The Google BXA Event Calendar is available on the BXA website [www.cmu.edu/interdisciplinary/buzz](http://www.cmu.edu/interdisciplinary/buzz). Students can access the same information through the University BXA Event Calendar at [www.cmu.edu/events](http://www.cmu.edu/events). Students can schedule advising appointments with their BXA Academic Advisor on the BXA Appointment Calendar at [http://bit.ly/BXAapt](http://bit.ly/BXAapt).

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Add/Drop............. Procedure where courses are officially added and/or removed to a current schedule
BA..................... Bachelor of Arts (also used by the Business Administration major)
BA..................... Business Administration
BCSA.................. Bachelor of Computer Science and Arts
BFA.................... Bachelor of Fine Arts
BH..................... Baker Hall
BHA.................... Bachelor of Humanities and Arts
BS..................... Bachelor of Science
BSA.................... Bachelor of Sciences and Arts
BXA........................ BXA Intercollege Degree Programs (BHA, BSA, & BCSA programs)
C@CM............. Computing @ Carnegie Mellon
CFA.................... College of Fine Arts
CIT.................... Carnegie Institute of Technology
CMU.................. Carnegie Mellon University
Co-requisite ...... Indicates courses to be taken during the same semester
Cross-listed ...... When the same course has more than one course number (e.g.: 73-110/ 88-110)
CUC.................. Jared L. Cohon University Center
The Cut.............. The grassy area between Hunt Library and Forbes Avenue; the quad
DC...................... Dietrich College of Humanities and Social Sciences
DH..................... Doherty Hall
Double-counting When one course can count toward two different requirements
Elective........... A pure elective is a course not required by a student’s academic program; it is usually
taken to supplement a particular program or simply out of personal interest or curiosity
GenEd................ General Education
GHC.................. Gates and Hillman Center
HBH.................. Hamburg Hall (Heinz)
Heinz........... Heinz College
Hrs. ............... Hours of class time per day (e.g.: 50-minutes per day)
HUB.................. Enrollment Services
L/Rec............. “Lecture” and “Recitations” meetings
The Mall........... The grassy area between CFA and Hamerschlag Hall
MI..................... Mellon Institute
Mini................. Courses offered during half of the semester
MCS.................. Mellon College of Science
MMCH.............. Margaret Morrison Carnegie Hall
MWF.................. Mondays, Wednesdays and Fridays
Pass/No Pass ..... Some courses are always taken Pass/No Pass (e.g.: Physical Education and some ROTC
courses); required courses may never be taken Pass/No Pass
PCA.................. Purnell Center for the Arts
PH..................... Porter Hall
Prereq........... Prerequisite is a course which must be completed before taking another
Registration ...... Requesting entrance into specific courses
ROTC............. Reserve Officer Training Corps
SCS.................. School of Computer Science
SH................... Schaeble Hall
SHS.................. Sciences and Humanities Scholar program
SIO............. Student Information Online
TBA................... To Be Announced (with regard to times for a course or instructor for a course)
TR..................... Tuesdays and Thursdays
WEH.................. Wean Hall
WH.................... Warner Hall (location of most Student Services offices)
## Index, Continued

<table>
<thead>
<tr>
<th>M</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting of the Minds</td>
<td>Vision (Mission, Values)</td>
</tr>
<tr>
<td>Mission (Vision, Values)</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning (Academic)</td>
<td>60, 61, 63</td>
</tr>
<tr>
<td>Watson? Festival</td>
<td>74</td>
</tr>
<tr>
<td>Withdrawal</td>
<td>66</td>
</tr>
<tr>
<td>Work Study</td>
<td>78</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of International Education</td>
<td></td>
</tr>
<tr>
<td>Overloads</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Number Changes</td>
<td></td>
</tr>
<tr>
<td>Pittsburgh Filmmakers</td>
<td></td>
</tr>
<tr>
<td>Postal Services</td>
<td></td>
</tr>
<tr>
<td>Printing Services</td>
<td></td>
</tr>
<tr>
<td>Privacy Policy</td>
<td></td>
</tr>
<tr>
<td>Probation (Academic)</td>
<td></td>
</tr>
<tr>
<td>Program Objectives</td>
<td>60, 62, 63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>Research Centers</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SAC Meetings</td>
<td></td>
</tr>
<tr>
<td>Scholarships</td>
<td></td>
</tr>
<tr>
<td>School Suspension</td>
<td></td>
</tr>
<tr>
<td>Security</td>
<td></td>
</tr>
<tr>
<td>Social Media</td>
<td></td>
</tr>
<tr>
<td>Student Activities</td>
<td></td>
</tr>
<tr>
<td>Student Affairs</td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td></td>
</tr>
<tr>
<td>STUDIO for Creative Inquiry</td>
<td></td>
</tr>
<tr>
<td>Study Abroad</td>
<td></td>
</tr>
<tr>
<td>SURF Grants</td>
<td></td>
</tr>
<tr>
<td>SURG/Crosswalk Grants</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcripts</td>
<td></td>
</tr>
<tr>
<td>Transfer Credit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Research Projects</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Research Office</td>
<td></td>
</tr>
<tr>
<td>University Bookstore</td>
<td></td>
</tr>
<tr>
<td>University Code</td>
<td></td>
</tr>
<tr>
<td>University Information Resources</td>
<td></td>
</tr>
<tr>
<td>University Suspension</td>
<td></td>
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</tbody>
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