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60401 Senior Studio
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60413 Advanced ETB: Real-Time Animation
10.0 A TR 08:00AM 10:50AM CMU REMOTE Pittsburgh, Pennsylvania DeYoung

60415 Advanced ETB: Animation Studio
10.0 A MW 08:00AM 10:50AM CMU REMOTE Pittsburgh, Pennsylvania Duesing

60419 Advanced ETB: Experimental Game Design: 10.0

Remote Play / Remote Work
A F 08:00AM 10:50AM CMU REMOTE Pittsburgh, Pennsylvania Pedercini
F 02:40PM 05:30PM CMU REMOTE Pittsburgh, Pennsylvania Pedercini

60425 Adv. ETB: (Im)Possible Worlds: 2D Animation, Motion Graphics and Visual Effects
10.0 A MW 02:40PM 05:30PM CMU REMOTE Pittsburgh, Pennsylvania Silver

60430 Advanced SIS: Open Sculpture
10.0 A MW 08:00AM 10:50AM CMU REMOTE Pittsburgh, Pennsylvania Rodman

60431 Advanced SIS: Installation
10.0 A MW 02:40PM 05:30PM DH B302 Pittsburgh, Pennsylvania Bingham
B MW 02:40PM 05:30PM CMU REMOTE Pittsburgh, Pennsylvania Bingham

60440 Advanced SIS: Special Topic:
10.0 A TR 08:00AM 10:50AM DH 1117 Pittsburgh, Pennsylvania Hansen

60452 Advanced DP3: Color
10.0 A MW 08:00AM 10:50AM CFA 313 Pittsburgh, Pennsylvania Merrell

60453 Advanced DP3: Painting
10.0 A MW 02:40PM 05:30PM CFA 400 Pittsburgh, Pennsylvania Barrois

60471 Advanced DP3: Photography/Print Workshop
10.0 A TR 08:00AM 10:50AM DH C300 Pittsburgh, Pennsylvania Beck

60474 Advanced DP3: Imaging Liveness: photography and performance
10.0 A F 08:00AM 10:50AM CFA 313 Pittsburgh, Pennsylvania Hubbard
F 02:40PM 05:30PM CFA 313 Pittsburgh, Pennsylvania Hubbard

60490 Advanced CP: Art of Mapping/Mapping as Art
10.0 A MW 08:00AM 10:50AM CMU REMOTE Pittsburgh, Pennsylvania Carson

60491 Advanced CP/ETB: Art AFTER The End Of The World
10.0 A MW 02:40PM 05:30PM WEH 8427 Pittsburgh, Pennsylvania Pell

60499 Studio Independent Study
5-10 A TBA DNM DNM Pittsburgh, Pennsylvania Cato, Jefferson
B TBA DNM DNM Pittsburgh, Pennsylvania Levin
C TBA DNM DNM Pittsburgh, Pennsylvania Johnson
D TBA DNM DNM Pittsburgh, Pennsylvania DeYoung
E TBA DNM DNM Pittsburgh, Pennsylvania Instructor TBA
F TBA DNM DNM Pittsburgh, Pennsylvania Hansen
G TBA DNM DNM Pittsburgh, Pennsylvania Instructor TBA
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**BXA Intercollege Degree Programs**

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**Biological Sciences**

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<td>Frontiers, Analysis, and Discovery in Biological Sciences</td>
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Lec 2  TR  02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania  Doonan, Drill, McGuier, Willard
A  TR  02:40PM 05:30PM DH 2303 Pittsburgh, Pennsylvania  Drill, McGuier, Doonan
B  TR  02:40PM 05:30PM CMU REMOTE Pittsburgh, Pennsylvania  Doonan, Drill, McGuier, Willard

03118  Beer: A Yeast’s Perspective
6.0  11  T  09:10PM 10:00PM CMU REMOTE Pittsburgh, Pennsylvania  McGuier
A1  R  06:40PM 09:30PM DH 2303 Pittsburgh, Pennsylvania  Doonan

03120  Biology for Life Special Topics Mini:  6.0
The Evolutionary Biology of Sex
A1  TR  11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania  Durand

Biology for Life Special Topics Mini
Germs The Good, The Bad, and the Ugly
A2  TR  11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania  Hiller
C2  MW  07:30PM 08:50PM CMU REMOTE Pittsburgh, Pennsylvania  Barth

Understanding Stress and Mood

W2  TBA  TBA  Doha, Qatar  Brasier

03121  Modern Biology
9.0  A  MWF  02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania  Wong-Noonan
B  MWF  05:20PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania  Lanni
W  UTR  01:30PM 02:20PM CMB 3046 Doha, Qatar  Affara, Rule

03124  Modern Biology Laboratory
9.0  Lec  W  05:20PM 06:10PM BH 136A Pittsburgh, Pennsylvania  Doonan
A  W  06:40PM 09:30PM DH 2303 Pittsburgh, Pennsylvania  Doonan

03125  Evolution
9.0  A  TR  08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania  Hinman
W  TR  03:00PM 04:20PM CMB 2052 Doha, Qatar  Bouaouina

03128  Biology for Life Special Topics
9.0  W  UTR  04:30PM 05:20PM CMB 3046 Doha, Qatar  Affara

03135  Structure and Function of the Human Body:  9.0
Structure and Function of the Human Body
A  MWF  04:00PM 04:50PM CMU REMOTE Pittsburgh, Pennsylvania  D’Antonio

03140  Ecology and Environmental Science
9.0  A  MWF  05:20PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania  Lopez

03151  Honors Modern Biology
10.0  Lec 1  MWF  02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania  Minden
Lec 2  UTR  01:30PM 02:20PM DNM DNM Doha, Qatar  Affara, Rule
A  R  09:10PM 10:00PM CMU REMOTE Pittsburgh, Pennsylvania  Minden
W  R  02:30PM 04:20PM CMB 2198 Doha, Qatar  Rule, Affara
R  02:30PM 04:20PM CMB 3046 Doha, Qatar

03201  Undergraduate Colloquium for Sophomores
1-3  W  M  10:00AM 10:50AM CMB 3048 Doha, Qatar  Vincent

03206  Biomedical Engineering Laboratory
9.0 A MW 03:30PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
B TR 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
C MW 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
D TR 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
E MW 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
F TR 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
G MW 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta
H TR 03:20PM 04:40PM EDS 125 Pittsburgh, Pennsylvania Zapanta

03210 Independent Study
1-12 A1 TBA TBA Pittsburgh, Pennsylvania Willard
A2 TBA TBA Pittsburgh, Pennsylvania Willard
W1 TBA DNM DNM Doha, Qatar Vincent
W2 TBA DNM DNM Doha, Qatar Rule

03220 Genetics
9.0 Lec MWF 09:20AM 10:10AM CMU REMOTE Pittsburgh, Pennsylvania Lopez
A R 05:20PM 06:10PM MI 348 Pittsburgh, Pennsylvania Lopez
B R 06:40PM 07:30PM CMU REMOTE Pittsburgh, Pennsylvania Lopez

03232 Biochemistry I
9.0 Lec UTR 04:30PM 05:20PM DNM DNM Doha, Qatar Rule
W W 10:00AM 10:50AM CMB 1032 Doha, Qatar Rule
X W 03:00PM 03:50PM TBA Doha, Qatar Rule
Y W 04:00PM 04:50PM TBA Doha, Qatar Rule

03320 Cell Biology
9.0 A MWF 12:00PM 12:50PM DH 2302 Pittsburgh, Pennsylvania Linstedt

03342 Introduction to Biological Laboratory Practices
1.0 A TBA TBA Pittsburgh, Pennsylvania Doonan
W TBA DNM DNM Doha, Qatar Vincent

03343 Experimental Techniques in Molecular Biology
12.0 Lec 1 W 04:00PM 04:50PM CMU REMOTE Pittsburgh, Pennsylvania Drill, McGuier
Lec 2 U 09:00AM 09:50AM CMB 2052 Doha, Qatar Vincent
A MF 01:20PM 05:10PM MI 333 Pittsburgh, Pennsylvania Doonan, McGuier, Drill
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C TR 01:20PM 02:10PM MI 355 Pittsburgh, Pennsylvania Drill, Doonan, McGuier
D TR 01:20PM 05:10PM MI 333 Pittsburgh, Pennsylvania Doonan, Drill, McGuier
W W 01:30PM 04:50PM CMB 3025 Doha, Qatar Vincent

03360 Genomics and Epigenetics of the Brain
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03362 Cellular Neuroscience
9.0 A TR 08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Gittis

03366 Biochemistry of the Brain
9.0 A MWF 05:20PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania Brasier

03390 Molecular and Cellular Immunology
9.0 W UTR 10:00AM 10:50AM TBA Doha, Qatar Rule
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  - Time: TBA
  - Location: DNM DNM
  - Instructor: Compeau

- **Introduction to Computational Biology**
  - 12.0 Credits
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  - Instructor: Ilyin

- **Genomics and Epigenetics of the Brain**
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  - Days: A
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| 02540| Bioimage Informatics                                     | 12.0    | Lec  | MW   | 09:50AM 11:10AM | CMU REMOTE             | Pittsburgh, Pennsylvania  
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| 02601| Programming for Scientists                              | 12.0    | Lec  | MW   | 01:30PM 02:50PM | CMU REMOTE             | Pittsburgh, Pennsylvania  
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| 02602| Professional Issues for Computational and Automated Scientists | 3.0     | A    | M    | 06:40PM 07:30PM | CMU REMOTE             | Pittsburgh, Pennsylvania  
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| 02613| Algorithms and Advanced Data Structures                 | 12.0    | A    | R    | 09:20AM 11:40AM | CMU REMOTE             | Pittsburgh, Pennsylvania  
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| 02680| Essential Mathematics and Statistics for Scientists      | 9.0     | Lec  | MW   | 11:40AM 01:00PM | CMU REMOTE             | Pittsburgh, Pennsylvania  
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| 02699| Independent Study in Computational Biology               | VAR     | A    | TBA  | TBA            | DNM DNM               | Instructor TBA          |
| 02700| M.S. Thesis Research                                     | 1-12    | A    | TBA  | TBA            | DNM DNM               | Kim                    |
| 02701| CPCB Course - Current Topics in Computational Biology    | 3.0     | Lec  | R    | 06:40PM 08:30PM | MI 348                | Pittsburgh, Pennsylvania  
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| 02713| Computational Methods for Biological Modeling and Simulation | 9.0     | Lec  | TR   | 03:20PM 04:40PM | CMU REMOTE             | Pittsburgh, Pennsylvania  
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15112 Fundamentals of Programming and Computer Science

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15121 Introduction to Data Structures
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15213 Introduction to Computer Systems

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15251 Great Ideas in Theoretical Computer Science

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B  TR  11:40AM 01:00PM WEH 5415  Pittsburgh, Pennsylvania  Platzer

Foundations of Blockchains and Distributed Consensus
12.0  E  TR  09:50AM 11:10AM CMU REMOTE  Pittsburgh, Pennsylvania  Shi

Advanced Algorithms:  12.0

Introduction to Cryptography:  12.0

Algorithms and Analysis for Scalable Computing Systems:  12.0

Special Topics in Theory: Algorithms for Big Data

Special Topics in Theory: Proofs vs Algorithms: The Sum of Squares Method

Computational Photography
12.0  A  MW  11:40AM 01:00PM CMU REMOTE  Pittsburgh, Pennsylvania  Gkioulekas

Computer Science for Education
12.0  B  TR  03:20PM 04:40PM CMU REMOTE  Pittsburgh, Pennsylvania  Acar

Parallelism and Concurrency

Computer Science Colloquium
0.0  A  TR  04:00PM 06:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Instructor TBA

Introductory Course for CS Doctoral Students (IC)
6.0  A  TBA  TBA  Pittsburgh, Pennsylvania  Guruswami

Graduate Reading and Research
1-60  A  TBA  TBA  Pittsburgh, Pennsylvania  Guruswami

Practicum in Computer Science
1-36  A  TBA  TBA  Pittsburgh, Pennsylvania  Guruswami
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**Dietrich College Information Systems**

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**Study Abroad**

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**Concepts of Information Systems**

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**Natural Language Processing with Python**

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**Mobile Web Design & Development**

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Database Design and Development
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Design Fundamentals: Shaping Interactions and Experiences
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Networks and Telecommunications
67301
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Human Computer Interface Design and Testing
67316
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| W    | UT    | 03:00PM 04:20PM CMB 3046 Doha, Qatar Liginlal    |

Contemporary Themes in Global Systems
67329
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Technology Consulting in the Global Community
67331

| VAR  | A1    | TBA                                      | TBA Pittsburgh, Pennsylvania | Mertz       |
| A2   | TBA   | TBA Pittsburgh, Pennsylvania             |                           | Mertz       |

Information & Grid Design
67338
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Electronic Business and Design Thinking
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Sustainability in the Digital Age
67354
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Healthcare Analytics and Big Data
67357
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Practical Data Science
67364
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Independent Study in Information Systems
67390
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67391  Independent Study in Information Systems
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67443  Mobile Application Design and Development
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       Lec 2 TR  08:00AM 09:20AM CMU REMOTE      Pittsburgh, Pennsylvania        Heimann, Veliz
       Lec 3 TR  09:50AM 11:10AM CMU REMOTE      Pittsburgh, Pennsylvania        Heimann, Veliz

67474  Tech Startup Launchpad
9.0     W       MW      10:30AM 11:50AM CMB 2062        Doha, Qatar        Vatanasakdakul, Phelps

67490  Practicum in Information Systems
6-18    W       TBA                     DNM  DNM  Doha, Qatar        Instructor TBA

67495  Advanced Projects in Information Systems
3-12    A       TBA                     TBA  Pittsburgh, Pennsylvania        Heimann
       B       TBA                     TBA  Pittsburgh, Pennsylvania        Quesenberry
       C       TBA                     TBA  Pittsburgh, Pennsylvania        Sooriamurthi
       E       TBA                     TBA  Pittsburgh, Pennsylvania        Mertz
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Z       TBA                     TBA     Doha, Qatar     Hagan
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9.0     A       TBA                     DNM DNM Pittsburgh, Pennsylvania        Feeney
B       TBA                     DNM DNM Pittsburgh, Pennsylvania        Daniels
C       TBA                     DNM DNM Pittsburgh, Pennsylvania        Instructor TBA
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Drama
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B1      MF      02:40PM 03:30PM CMU REMOTE      Pittsburgh, Pennsylvania        Levinson
54050 Study Abroad
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54101 Acting I
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B       MWF      09:00AM 11:20AM TBA     Pittsburgh, Pennsylvania        Smith
C       MWF      09:00AM 11:20AM REH SINGLE      Pittsburgh, Pennsylvania        Quinn
54103 Speech I
6.0     A       T      10:00AM 11:20AM CMU REMOTE      Pittsburgh, Pennsylvania        Wadsworth
R      10:00AM 10:50AM CMU REMOTE      Pittsburgh, Pennsylvania        Wadsworth
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54105 Voice for the Stage I
5.0     A       T      10:00AM 11:20AM PCA 321 Pittsburgh, Pennsylvania        Velten-Smith
R      10:00AM 11:00AM PCA 321 Pittsburgh, Pennsylvania        Velten-Smith
B       T      01:30PM 02:50PM PCA 118 Pittsburgh, Pennsylvania        Velten-Smith
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- Who Wore What: When, Where, and Why
- Dramaturgy 4: In Company
- Stagecraft II
- New Play Collaboration
- New Play Collaboration for Actors
- Dramaturgy 3: New Play Dramaturgy
- Directing: Production II
- Welding
- Stage Management: Cue Lab
- Conceptual Sound Design
- Organized Sound
- Technical Management
- Technical Direction I
- Seminar in Costume Management
- Foundations of Drama II
- Fundamentals of Directing
- Alexander Technique Tutorials
- Advanced Fabrication 2
- Dramaturgy Production
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19602  Current Topics In Privacy Seminar  
3.0   A  R  11:40AM 01:00PM CMU REMOTE  Pittsburgh, Pennsylvania Libert

19603  Data Science for Technology, Innovation and Policy  
12.0  A  MW  09:50AM 11:10AM PH 100  Pittsburgh, Pennsylvania Davis
       B  MW  09:50AM 11:10AM CMU REMOTE  Pittsburgh, Pennsylvania Davis

19608  Privacy Policy, Law, and Technology  
12.0  A  MW  09:50AM 11:10AM CMU REMOTE  Pittsburgh, Pennsylvania Bauer, Libert
       RW  MW  03:50PM 05:10PM CMR F307  Kigali, Rwanda Bauer, Libert

19624  Emerging Energy Policies  
12.0  A  TR  11:40AM 01:00PM CMU REMOTE  Pittsburgh, Pennsylvania Reed

19629  Climate Change Science and Solutions  
12.0  A  MW  07:00PM 08:20PM GHC 4401  Pittsburgh, Pennsylvania Curtright

19638  Smart Grids and Future Electric Energy Systems  
12.0  Lec  TR  05:10PM 06:30PM CMU REMOTE  Pittsburgh, Pennsylvania Ilic
       A  F  12:00PM 12:50PM CMU REMOTE  Pittsburgh, Pennsylvania Ilic

19639  Policies of the Internet  
12.0  A  TR  03:20PM 04:40PM CMU REMOTE  Pittsburgh, Pennsylvania Peha

19657  Special Topics: Introduction to Venture Finance  
6.0   C1  M  06:40PM 09:30PM CMU REMOTE  Pittsburgh, Pennsylvania Williams, Haring-Smith

19667  Optimization Models for Power System Operation, Planning & Monitoring  
6.0   B1  MW  06:40PM 08:30PM HL A4  Pittsburgh, Pennsylvania Moutis

19671  Tech Start-up: Market Discovery  
6.0   A1  R  06:40PM 09:30PM HBH 2008  Pittsburgh, Pennsylvania Desantis

19672  Special Topics: Tech Start-up: Building Your Own Company  
6.0   A2  R  06:40PM 09:30PM HBH 1005  Pittsburgh, Pennsylvania Desantis

19673  Special Topics: Patents, Licensing, and Innovation  
12.0  A  T  06:40PM 09:30PM CMU REMOTE  Pittsburgh, Pennsylvania Alderucci

19676  Special Topics: Product Management Studio  
12.0  A  T  06:40PM 09:30PM PH A18A  Pittsburgh, Pennsylvania Berardone

19684  Engineering and Technology Innovation Management in Practice  
6.0   A  M  08:00AM 09:20AM DH 2210  Pittsburgh, Pennsylvania Williams

19685  Engineering Optimization without Project  
9.0   A  TR  04:00PM 05:50PM CMU REMOTE  Pittsburgh, Pennsylvania Michalek

19687  Managing Research, Development and Innovation  
6.0   A1  TR  08:00AM 09:20AM CMU REMOTE  Pittsburgh, Pennsylvania Charlton

19689  Finance for Innovation Management  
6.0   A1  F  09:20AM 12:10PM CMU REMOTE  Pittsburgh, Pennsylvania Wasson

19690  M.S. Project  
3-12  A  TBA                DNM DNM Pittsburgh, Pennsylvania Matthews, Williams

19691  Special Topics: Decision-Making Methods for Innovation Management  
6.0   A2  F  09:20AM 12:10PM CMU REMOTE  Pittsburgh, Pennsylvania Wasson

19694  Leadership and Innovation Management  
6.0   A1  MW  03:20PM 04:40PM 3SC 265  Pittsburgh, Pennsylvania Cohon

19695  Internship Practicum
0-12  A  TBA  

19700   Directed Study in EPP: Graduate  

0-36  A  TBA
PP  TBA

0-12  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Matthews, Williams

19701   Introduction to the Theory and Practice of Policy Analysis  

12.0  A  TR  09:50AM 11:10AM BH A51  Pittsburgh, Pennsylvania  Adams, Morgan, Kuntz
PP  TR  03:20PM 04:40PM TBA

19705   Workshop Applied Policy Analysis  

6.0  A  TR  01:30PM 02:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Adams, Morgan, Kuntz
PP  TBA

19706   Microeconomics Analysis  

6.0  A1  TR  03:20PM 04:40PM GHC 6115  Pittsburgh, Pennsylvania  Muller

19707   Special Topics: Multiple Criteria Decision Making  

6.0  A2  MW  03:20PM 04:40PM CMU REMOTE  Pittsburgh, Pennsylvania  Cohon

19711   Science and Innovation Leadership for the 21st Century: Firms, Nations, and Tech  

12.0  A  MW  04:00PM 05:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Fuchs
PP  TBA

19713   Policies of Wireless Systems  

12.0  A  TR  11:40AM 01:00PM CMU REMOTE  Pittsburgh, Pennsylvania  Peha

19717   Sustainable Engineering Principles  

12.0  A  MWF  02:40PM 03:30PM CMU REMOTE  Pittsburgh, Pennsylvania  DiPietro

19740   Combustion and Air Pollution Control  

12.0  A  TR  01:30PM 02:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Presto

19750   Project Research  

0-50  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Matthews, Muller
PP  TBA

19751   Air Quality Engineering  

12.0  A  MW  04:00PM 04:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Gordon

19752   EPP Project Management  

12.0  A  TR  04:00PM 05:50PM WEH 7500  Pittsburgh, Pennsylvania  Sirbu, Miller

19753   EPP Teaching Practicum  

0-12  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Matthews, Muller
PP  TBA

19760   EPP Internship in University Teaching  

3-12  A  TBA  TBA  Pittsburgh, Pennsylvania  Matthews, Muller
PP  TBA

19770   Research Practicum in EPP  

0,5,18,36  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Matthews, Muller
PP  TBA

19785   Engineering Optimization  

12.0  A  TR  04:00PM 05:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Michalek

19786   Stochastic Discrete Choice Models: Estimation and Behavioral Theory  

12.0  A  MW  05:10PM 06:30PM CMU REMOTE  Pittsburgh, Pennsylvania  Davis

19799   EPP Ph.D. Thesis Research  

0-36  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Matthews, Muller
PP  TBA
19819  A/B Testing, Design, and Analysis
       6.0   A2   W   06:40PM 09:30PM CMU REMOTE Pittsburgh, Pennsylvania Ferreira

19881  Seminar in Electricity Market Restructuring
       6.0   A2   TR   05:20PM 07:10PM CMU REMOTE Pittsburgh, Pennsylvania Apt

English
76050  Study Abroad
       0.0   A   TBA                      DNM DNM Pittsburgh, Pennsylvania Instructor TBA

76100  Reading and Writing in an Academic Context
       9.0   A   MWF   09:20AM 10:10AM HH 1107 Pittsburgh, Pennsylvania Yoon
       B   MWF   10:40AM 11:30AM CMU REMOTE Pittsburgh, Pennsylvania Wright
       C   MWF   09:20AM 10:10AM CMU REMOTE Pittsburgh, Pennsylvania Austin
       E   MWF   01:20PM 02:10PM CMU REMOTE Pittsburgh, Pennsylvania Wright
       H   TR   08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Austin
       I   TR   09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Austin
       J   TR   01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Gillette
       K   TR   03:20PM 04:40PM CMU REMOTE Pittsburgh, Pennsylvania Gillette
       W   UTR   10:00AM 10:50AM CMB 2052 Doha, Qatar Gomez Laich
       WW  UTR   11:00AM 11:50AM CMB 3044 Doha, Qatar Squires
       WX  UTR   10:00AM 10:50AM DNM DNM Doha, Qatar Squires
       WY  UTR   11:00AM 11:50AM DNM DNM Doha, Qatar Squires
       X   UTR   11:00AM 11:50AM CMB 3048 Doha, Qatar Dreher
       XX  UTR   10:00AM 10:50AM CMB 3048 Doha, Qatar Dreher
       Y   UTR   11:00AM 11:50AM CMB 2051 Doha, Qatar Reynolds
       YY  UTR   10:00AM 10:50AM CMB 2147 Doha, Qatar Reynolds

76101  Interpretation and Argument
       9.0   A   MWF   08:00AM 08:50AM BH A53 Pittsburgh, Pennsylvania Pal-Agrawal
       AA  MWF   09:20AM 10:10AM POS 152 Pittsburgh, Pennsylvania Pal-Agrawal
       B   MWF   10:40AM 11:30AM CMU REMOTE Pittsburgh, Pennsylvania Gordon
       BB  MWF   10:40AM 11:30AM CMU REMOTE Pittsburgh, Pennsylvania Wigginton
       C   MWF   12:00PM 12:50PM CMU REMOTE Pittsburgh, Pennsylvania Novosat
       CC  MWF   12:00PM 12:50PM CMU REMOTE Pittsburgh, Pennsylvania Wigginton
       D   MWF   01:20PM 02:10PM CMU REMOTE Pittsburgh, Pennsylvania Kravetz
       DD  MWF   01:20PM 02:10PM BH A53 Pittsburgh, Pennsylvania Pal-Agrawal
       E   MWF   02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Mayshle
       G   MWF   04:00PM 04:50PM CMU REMOTE Pittsburgh, Pennsylvania Shropshire
       H   MWF   05:20PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania Novosat
       HH  MWF   05:20PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania Stamm
       I   MWF   06:40PM 07:30PM CMU REMOTE Pittsburgh, Pennsylvania Stamm
       J   TR   08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Pollak
       JJ  TR   09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Gillette
       K   TR   09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Pensky
       L   TR   01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Gotzler
       LL  TR   01:30PM 02:50PM DH A301D Pittsburgh, Pennsylvania Adcox
       M   TR   03:20PM 04:40PM GHC 4215 Pittsburgh, Pennsylvania Adcox
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76203 Literature & Culture in the 18th Century: 9.0

The Birth of Modern Media
  A       TR      03:20PM 04:40PM CMU REMOTE Pittsburgh, Pennsylvania Straub

76210 Banned Books
  9.0     A       TR      09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Newman

76217 Literature & Culture of the 20th and 21st Century
  9.0     A       MW      01:30PM 02:50PM DH 1209 Pittsburgh, Pennsylvania Williams

76221 Books You Should Have Read By Now: 9.0

Utopias
  A       MWF     12:00PM 12:50PM CMU REMOTE Pittsburgh, Pennsylvania Hancock

76222 Creative Writing Matters
  9.0     A       TR      08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Daniels

76239 Introduction to Film Studies
  9.0     A       MWF     02:40PM 03:30PM PH 100 Pittsburgh, Pennsylvania Hinkelman
  M       06:40PM 09:30PM BH A51 Pittsburgh, Pennsylvania Banerjee

76241 Introduction to Gender Studies
  9.0     A       MW      08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Aguiar

76247 Shakespeare: Comedies and Romances
  9.0     A       MW      11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Wittek

76259 Film History
  9.0     A       TR      11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Shumway

76260 Survey of Forms: Fiction
  9.0     A       MW      11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Gonzalez
  B       TR      01:30PM 02:50PM WEH 5421 Pittsburgh, Pennsylvania Bernstein

76261 Survey of Forms: Creative Nonfiction
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76265 Survey of Forms: Poetry
  9.0     A       TR      08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Shapiro
  B       TR      01:30PM 02:50PM DH A200 Pittsburgh, Pennsylvania Mccafferty

76269 Survey of Forms: Screenwriting
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  B       MW      09:50AM 11:10AM POS 151 Pittsburgh, Pennsylvania Dilworth, Haworth

76270 Writing for the Professions
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Entertainment Technology Pittsburgh

53250 Immersive Experience Pre-production Process

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53600 ETC Cooperative Education

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### Special Topics in HCI

**Transformational Game Design Studio**
- **G** TR 12:00PM 01:50PM CMU REMOTE Pittsburgh, Pennsylvania Kemper

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| 05610 | User-Centered Research and Evaluation | 12.0 | Lec | MW | 11:40AM 01:00PM NSH 3305 Pittsburgh, Pennsylvania Musuraca, Guidi |
|       |                                            | A | MW | 11:40AM 01:00PM NSH 3305 Pittsburgh, Pennsylvania Musuraca, Guidi |
|       |                                            | B | MW | 11:40AM 01:00PM WEH 5409 Pittsburgh, Pennsylvania Musuraca, Guidi |
|       |                                            | C | MW | 11:40AM 01:00PM GHC 4215 Pittsburgh, Pennsylvania Musuraca, Guidi |
|       |                                            | D | MW | 06:30AM 07:50AM CMU REMOTE Pittsburgh, Pennsylvania Musuraca, Guidi |
|       |                                            | E | MW | 01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Musuraca, Guidi |
|       |                                            | F | MW | 11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Guidi, Musuraca |

| 05618 | Human AI Interaction | 12.0 | A | TR | 03:20PM 04:40PM CMU REMOTE Pittsburgh, Pennsylvania Zhu, Wu |

| 05630 | Programming Usable Interfaces: | 15.0 | Lec | MW | 08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Carrington |
|       | Programming Usable Interfaces | A | M | 09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Carrington |

| 05631 | Software Structures for User Interfaces: | 12.0 | Lec | MW | 09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Carrington |
|       | Software Structures for User Interfaces | A | TR | 01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Myers |

| 05651 | Interaction Design Studio 1 | 12.0 | A | TR | 08:00AM 10:20AM CMU REMOTE Pittsburgh, Pennsylvania Pangaro, Zimmerman |
|       |                             | B | TR | 02:40PM 05:00PM CMU REMOTE Pittsburgh, Pennsylvania Pangaro, Hammer |
|       |                             | C | TR | 06:40PM 09:00PM CMU REMOTE Pittsburgh, Pennsylvania Pangaro, Blue |

| 05652 | Service Design | 12.0 | A | MW | 03:20PM 04:40PM NSH 3002 Pittsburgh, Pennsylvania Shelly |
Digital Service Innovation: 12.0

A   MW  08:00AM 09:20AM CMU REMOTE     Pittsburgh, Pennsylvania     Musuraca, Shelly

Independent Study in HCI - METALS

VAR   A   TBA  DNM DNM Pittsburgh, Pennsylvania      Bett, Bodnar

B   TBA  DNM DNM Pittsburgh, Pennsylvania      Bett, Bodnar

Small Group Study in HCI

0-36   A   TBA  DNM DNM Pittsburgh, Pennsylvania      Willis

B   TBA  DNM DNM Pittsburgh, Pennsylvania      Willis

Independent Study in HCI - Grad

0-48   A   TBA  DNM DNM Pittsburgh, Pennsylvania      Willis

B   TBA  DNM DNM Pittsburgh, Pennsylvania      Willis

Interaction Design Overview

9.0   A   MW  10:40AM 12:30PM CMU REMOTE     Pittsburgh, Pennsylvania     Kornblum, Ortega Pallanez

B   MW  01:20PM 03:10PM CMU REMOTE     Pittsburgh, Pennsylvania     Kornblum, Yao

HCI Process and Theory: 9.0

Process and Theory in HCI

A   TR  09:50AM 11:10AM CMU REMOTE     Pittsburgh, Pennsylvania     Kittur

Human Factors

9.0   A   TR  09:50AM 11:10AM CMU REMOTE     Pittsburgh, Pennsylvania     Dabbish

Perception

9.0   A   TR  08:00AM 09:20AM CMU REMOTE     Pittsburgh, Pennsylvania     Klatzky

E-Learning Design Principles and Methods

12.0   A   TR  08:00AM 09:20AM CMU REMOTE     Pittsburgh, Pennsylvania     Koedinger, O'Light

Personalized Online Learning

12.0   A   TR  01:30PM 02:50PM CMU REMOTE     Pittsburgh, Pennsylvania     Koedinger

Gadgets, Sensors and Activity Recognition in HCI: 12.0

Gadgets, Sensors and Activity Recognition in HCI

A   TR  09:50AM 11:10AM CMU REMOTE     Pittsburgh, Pennsylvania     Hudson

Applied Machine Learning

12.0   A   TR  08:00AM 09:20AM CMU REMOTE     Pittsburgh, Pennsylvania     Rose

The Role of Technology in Learning in the 21st Century: 12.0

The Role of Technology in Learning in the 21st Century

A   MW  11:40AM 01:00PM 3SC 265 Pittsburgh, Pennsylvania     Ogan

Interactive Data Science

12.0   A   TR  09:50AM 11:10AM CMU REMOTE     Pittsburgh, Pennsylvania     Moritz, Perer

Introduction to Human Computer Interaction for Technology Executives

6.0   A2   TR  02:40PM 04:25PM CMU REMOTE     Pittsburgh, Pennsylvania     Musuraca

Practicum in HCI: 3-48

Practicum in HCI

A   TBA  DNM DNM Pittsburgh, Pennsylvania      Kravitz, Bigham
05891 Designing Human Centered Software: 12.0

Designing Human Centered Software

A TR 11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Harrison

05899 Special Topics in HCI: 12.0

Artificial intelligence: Design for the Long Term

A MW 09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Kulkarni

Fairness, Accountability, Transparency, & Ethics in Sociotechnical Systems

C MW 01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Hong

Persuasive Design

D TR 08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Kaufman

Social Data Science

E MW 03:20PM 04:40PM 4SC 104 Pittsburgh, Pennsylvania Shirado

Document Design

F TR 11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Kornblum

Transformational Game Design Studio

G TR 12:00PM 01:50PM CMU REMOTE Pittsburgh, Pennsylvania Kemper

05982 Independent Teaching Experience: 9.0

Independent Teaching Experience

A TBA DNM DNM Pittsburgh, Pennsylvania Kravitz, Bigham

05997 Reading and Research in HCI: 24-48

Reading and Research in HCI

A TBA DNM DNM Pittsburgh, Pennsylvania Kravitz, Bigham

Information & Communication Technology

04330 Fundamentals of Software Development and Problem Solving 12.0

A MW 07:20PM 09:10PM CMU REMOTE Kigali, Rwanda Bishop

T 12:50PM 01:50PM CMR F203 Kigali, Rwanda

R 12:50PM 01:50PM CMR F203 Kigali, Rwanda

F 05:50PM 07:30PM CMR F205 Kigali, Rwanda

B MW 07:20PM 09:10PM CMU REMOTE Kigali, Rwanda Bishop

T 12:50PM 01:50PM CMR F307 Kigali, Rwanda

R 12:50PM 01:50PM CMR F307 Kigali, Rwanda

F 04:00PM 05:40PM CMR F305 Kigali, Rwanda

04601 First-Year Seminar 6.0

First-Year Seminar

A F 08:30AM 10:20AM CMR F203 Kigali, Rwanda Brown, Kelly
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95721 Information Systems Research Practicum

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Decision Processes in American Political Institutions
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Research Training: Institute for Politics and Strategy
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Geopolitical Challenges of a Changing Middle East I: Politics, Security, & Law
3.0     W2      TBA                     TBA     Doha, Qatar     Arana

Geopolitical Challenges of a Changing Middle East II: Politics, Security, & Law
3.0     W2      TBA                     TBA     Doha, Qatar     Clarke

International Political Economy
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International Organizations and Law
9.0     A       R       06:40PM 09:30PM CMU REMOTE      Pittsburgh, Pennsylvania        Grise

Theories of International Relations
9.0     A       TR      08:00AM 09:20AM CMU REMOTE      Pittsburgh, Pennsylvania        Schramm

Money, Media, and the Power of Data in Decisionmaking
6.0     A1      M       05:30PM 08:20PM MDC 520A        Washington, District of Columbia:Dulles Smaczniak
**Political News Coverage in the Era of Trump, Twitter, and "Fake News"**

- 6.0  
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- 02:00PM 04:50PM MDC 520A  
- Washington, District of Columbia:Dulles Nauret

**Making Change: How Organized Interests Work in Washington**

- 12.0  
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- 05:30PM 08:20PM MDC 520A  
- Washington, District of Columbia:Dulles Crowell

**CMU/WSP: Internship Seminar**

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- 05:30PM 07:50PM MDC 520A  
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**Decision Science for International Relations**

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- Fischhoff

**Global Nuclear Politics**

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**Grand Strategy in the United States**

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**Conflicts in the Middle East: Iran, Iraq, and Proxy Warfare**

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- Keshavarz

**The Privatization of Force**

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**Concepts of War and Cyber War**

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**The Future of Warfare**

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**Policy Forum**

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- Washington, District of Columbia:Dulles Karako  
- Zeigler

**Undergraduate Research**

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- Chin

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- Hansen

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17996  Societal Computing Independent Study
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C       TBA                     DNM DNM Pittsburgh, Pennsylvania        Pfeffer
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E       TBA                     DNM DNM Pittsburgh, Pennsylvania        Agarwal
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K       TBA                     DNM DNM Pittsburgh, Pennsylvania        Goel
L       TBA                     DNM DNM Pittsburgh, Pennsylvania        Fang
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N       TBA                     DNM DNM Pittsburgh, Pennsylvania        Christin

17997  Software Engineering Graduate Reading & Research
1-48    A       TBA                     DNM DNM Pittsburgh, Pennsylvania        Kaestner
PP      TBA                     DNM DNM Lisbon, Portugal        Kaestner

17998  Software Engineering Practicum Internship
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Integrated Innovation Institute
49313  Designing for the Internet of Things
12.0    A       MW      07:00PM 08:20PM HL A10 Pittsburgh, Pennsylvania        Russo

49700  Engineering Design Fundamentals
6.0     A1      TR      05:20PM 07:10PM III 103 Pittsburgh, Pennsylvania        Degentesh

49701  Product Design Fundamentals
6.0     A1      TR      08:00AM 09:50AM CMU REMOTE Pittsburgh, Pennsylvania        Vinchesi

49702  Business Fundamentals
6.0     A1      MWF     02:40PM 04:30PM CMU REMOTE Pittsburgh, Pennsylvania        Lamont

49703  Career Planning for Integrated Innovators
6.0     A       F       09:20AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania        Woolsey, Shyu

49704  Integrated Innovation Institute-Seminar & Workshop Series
0.0     A       F       12:00PM 01:50PM CMU REMOTE Pittsburgh, Pennsylvania        Ayoob, Rogers

49710  Visual Processes
6.0     A2      TR      06:40PM 08:30PM CMU REMOTE Pittsburgh, Pennsylvania        Leonard

49712  User Research Methods
6.0     A1      MW      05:20PM 07:10PM CMU REMOTE Pittsburgh, Pennsylvania        Gemperle

49715  Special Topics: IoT Ecosystems
6.0     A2      TR      04:00PM 05:50PM CMU REMOTE Pittsburgh, Pennsylvania        Russo

49716  Special Topics: Experience Innovation
12.0    A       TR      01:20PM 03:10PM III 103 Pittsburgh, Pennsylvania        Ayoob

49720  Product & Brand Management
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49761 Elements of Software Management: 12.0

Elements of Software Management
A1      T       05:30PM 09:20PM B23 211 San Jose, California    Thomas

Elements of Software Management
R1      T       05:50PM 09:40PM CMU REMOTE San Jose, California Taborga

Metrics for Software Managers
12.0    B2      T       05:50PM 09:40PM CMU REMOTE San Jose, California Taborga

Product Management
12.0    A1      WR      06:30PM 08:00PM CMU REMOTE San Jose, California Miller

The First-Time Manager
12.0    A       TR      02:10PM 03:30PM CMU REMOTE San Jose, California Wasserman

Software Engineering Management
12.0    A       TR      10:30AM 12:20PM CMU REMOTE San Jose, California Fang

Architecture & Programming Principles
12.0    A       M       06:30PM 09:30PM CMU REMOTE San Jose, California Shaikh

Software Management Independent Study: 3,6,12,24

Software Management Independent Study
A       TBA                     TBA     San Jose, California    Mercier, Shaikh, Fang
49791 Software Management Capstone Project: 3,6,12,24

Software Management Capstone Project
A       TBA                     TBA     San Jose, California    Wasserman, Mercier, Thomas
49792 Software Management Practicum: 3,6,8-9,1224

Software Management Practicum
A       F       02:10PM 06:00PM B23 109 San Jose, California    Mercier
49794 Strategies for Your Software Industry Career
3.0     A       F       11:40AM 01:30PM CMU REMOTE San Jose, California Mercier, Schachar

Software Management Independent Study
VAR     A1      TBA                     CMU REMOTE San Jose, California    Mercier, Shaikh, Fang

Software Management Independent Study
A2      TBA                     CMU REMOTE San Jose, California Mercier

Commercializing Intellectual Property
12.0    B       TR      09:00AM 10:20AM B23 211 San Jose, California Thomas
49802 Innovation & Entrepreneurship
12.0    B       MW      01:30PM 03:20PM CMU REMOTE San Jose, California Evans

Integrated Innovation for Large-Scale Problems
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PP       TBA                     TBA     Lisbon, Portugal        Instructor TBA

11927   MIIS Capstone Project
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**Machine Learning**

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10930  Dissertation Research
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10935  Practicum
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10940  Independent Study
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Materials Science & Engineering
27050  Study Abroad
       0.0   A   TBA                     TBA     Pittsburgh, Pennsylvania   Instructor TBA

27100  Engineering the Materials of the Future
       12.0  Lec  MWF                  02:40PM 03:30PM CMU REMOTE      Pittsburgh, Pennsylvania   Marom
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       T 05:20PM 06:10PM CMU REMOTE      Pittsburgh, Pennsylvania
       B   T 02:40PM 05:30PM DH C302 Pittsburgh, Pennsylvania   Heard
       T 05:20PM 06:10PM CMU REMOTE      Pittsburgh, Pennsylvania
       C   R 02:40PM 05:30PM DH A303 Pittsburgh, Pennsylvania   Heard
       R 05:20PM 06:10PM CMU REMOTE      Pittsburgh, Pennsylvania
       D   R 02:40PM 05:30PM DH C302 Pittsburgh, Pennsylvania   Heard
       R 05:20PM 06:10PM CMU REMOTE      Pittsburgh, Pennsylvania

27111  Academic Variant
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27201  Structure of Materials
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       TR 08:00AM 09:50AM DH C302 Pittsburgh, Pennsylvania
       A   F 04:00PM 05:50PM DH A303 Pittsburgh, Pennsylvania   Sokalski
       F 04:00PM 05:50PM DH C302 Pittsburgh, Pennsylvania

27210  Materials Engineering Essentials: 6.0

TBA
A   R 12:00PM 01:50PM CMU REMOTE      Pittsburgh, Pennsylvania   Heard

27211  Structure of Materials (Minor Option)
       6.0   A   TR                   08:00AM 09:50AM CMU REMOTE      Pittsburgh, Pennsylvania   Sokalski

27215  Thermodynamics of Materials
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27301  Microstructure and Properties I
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       M 09:20AM 11:10AM DH C302 Pittsburgh, Pennsylvania
       B   W 09:20AM 11:10AM DH A303 Pittsburgh, Pennsylvania   Degraef, Garrison
       W 09:20AM 11:10AM DH C302 Pittsburgh, Pennsylvania
       C   F 09:20AM 11:10AM DH A303 Pittsburgh, Pennsylvania   Degraef, Garrison
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27799 Thermodynamics II
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27995 Internship
1-48 A TBA TBA Pittsburgh, Pennsylvania Rohrer

Mathematical Sciences

21050 Study Abroad
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21111 Calculus I
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B TR 02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Moskaleva
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X UMTWR 01:30PM 02:20PM TBA Doha, Qatar Oliver

21112 Calculus II
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A TR 01:20PM 02:10PM CMU REMOTE Pittsburgh, Pennsylvania Nag

21120 Differential and Integral Calculus
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Lec 2 MWF 09:20AM 10:10AM CMU REMOTE Pittsburgh, Pennsylvania Flaherty
Lec 3 MWF 02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Flaherty
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B TR 09:20AM 10:10AM CMU REMOTE Pittsburgh, Pennsylvania Fernandes
C TR 12:00PM 12:50PM CMU REMOTE Pittsburgh, Pennsylvania Dolle
D TR 01:20PM 02:10PM CMU REMOTE Pittsburgh, Pennsylvania He
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F TR 08:00AM 09:10AM CMU REMOTE Pittsburgh, Pennsylvania Abou El Wafa
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H TR 01:20PM 02:10PM CMU REMOTE Pittsburgh, Pennsylvania Jappe
I TR 04:00PM 05:00PM CMU REMOTE Pittsburgh, Pennsylvania Wong
J TR 06:40PM 07:30PM CMU REMOTE Pittsburgh, Pennsylvania Korimilli
K TR 08:00AM 09:10AM CMU REMOTE Pittsburgh, Pennsylvania Rotunno
L TR 01:20PM 02:10PM CMU REMOTE Pittsburgh, Pennsylvania Qi
M TR 02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Newman
N TR 04:00PM 05:00PM CMU REMOTE Pittsburgh, Pennsylvania Beaumont
O TR 06:40PM 07:30PM CMU REMOTE Pittsburgh, Pennsylvania Newman
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21122 Integration and Approximation
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### 21241 Matrices and Linear Transformations

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- Instructor: Mihai

#### Lec 2
- Time: 10:40AM - 11:30AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Mihai

#### Lec 3
- Time: 09:20AM - 10:10AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Offner

#### Lec 4
- Time: 10:40AM - 11:30AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Offner

#### Lec 5
- Time: 10:40AM - 11:30AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Howell

#### Lec 6
- Time: 09:00AM - 09:50AM
- Location: Doha, Qatar
- Instructor: Yilma

### 21242 Matrix Theory

#### Lec 1
- Time: 10:40AM - 11:30AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Conley

#### Lec 2
- Time: 01:20PM - 02:10PM
- Location: Pittsburgh, Pennsylvania
- Instructor: Marun

#### Lec 3
- Time: 02:40PM - 03:30PM
- Location: Pittsburgh, Pennsylvania
- Instructor: Lee

### 21254 Linear Algebra and Vector Calculus for Engineers

#### Lec 1
- Time: 09:50AM - 11:10AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Caldwell

#### Lec 2
- Time: 11:40AM - 01:00PM
- Location: Pittsburgh, Pennsylvania
- Instructor: Caldwell

### 21256 Multivariate Analysis

#### Lec 1
- Time: 09:20AM - 10:10AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Gheorghiciuc

#### Lec 2
- Time: 10:40AM - 11:30AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Gheorghiciuc

#### Lec 3
- Time: 08:00AM - 08:50AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Cho

#### Lec 4
- Time: 09:20AM - 10:10AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Cho

#### Lec 5
- Time: 01:20PM - 02:10PM
- Location: Pittsburgh, Pennsylvania
- Instructor: Li

#### Lec 6
- Time: 09:20AM - 10:10AM
- Location: Pittsburgh, Pennsylvania
- Instructor: Dai

#### Lec 7
- Time: 05:20PM - 06:10PM
- Location: Pittsburgh, Pennsylvania
- Instructor: Dai

#### Lec 8
- Time: 06:40PM - 07:30PM
- Location: Pittsburgh, Pennsylvania
- Instructor: Chen
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21901 Master’s Degree Research

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21902 Doctoral Thesis Research

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P  TBA  DNM DNM Pittsburgh, Pennsylvania  Pisztora, Slepcev
PP  TBA  DNM DNM Lisbon, Portugal  Instructor TBA
Q  TBA  DNM DNM Pittsburgh, Pennsylvania  Slepcev, Schaeffer
R  TBA  DNM DNM Pittsburgh, Pennsylvania  Slepcev, Schaeffer
S  TBA  DNM DNM Pittsburgh, Pennsylvania  Slepcev, Schimmerling
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W  TBA  DNM DNM Pittsburgh, Pennsylvania  Slepcev, Tice
X  TBA  DNM DNM Pittsburgh, Pennsylvania  Tkocz, Slepcev
Y  TBA  DNM DNM Pittsburgh, Pennsylvania  Slepcev, Walkington
Z  TBA  DNM DNM Pittsburgh, Pennsylvania  Weber, Slepcev

21997  Mathematics Colloquium
0.0  A  WF  05:10PM 06:30PM CMU REMOTE  Pittsburgh, Pennsylvania  Instructor TBA

Mechanical Engineering
24050  Study Abroad
0.0  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Kara

24101  Fundamentals of Mechanical Engineering
12.0  Lec  MW  04:00PM 05:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Bedillion
      A  R  01:20PM 03:10PM DH 2210 Pittsburgh, Pennsylvania  Bedillion
      B  R  04:00PM 05:50PM DH 2210 Pittsburgh, Pennsylvania  Bedillion
      C  R  06:40PM 08:30PM 3SC 265 Pittsburgh, Pennsylvania  Bedillion
      D  R  05:20PM 07:10PM HOA 160 Pittsburgh, Pennsylvania  Bedillion

24104  Maker Series: Intro to Modern Making
3.0  A2  W  04:00PM 05:50PM ANS B10 Pittsburgh, Pennsylvania  Bates
     B1  F  04:00PM 05:50PM ANS B10 Pittsburgh, Pennsylvania  Bates

24105  Special Topics: Maker Series: Intro to Laser Cutting & Engraving
1.0  A1  T  10:40AM 12:30PM ANS B10 Pittsburgh, Pennsylvania  Bates
     B2  R  10:40AM 12:30PM ANS B10 Pittsburgh, Pennsylvania  Bates
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**24207 Special Topics: Maker Series: Intro to CNC Router**

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**24210 Special Topics: Maker Series: Inventive Projects**

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**24282 Special Topics: Linear Algebra and Vector Calculus for Engineers**

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**24291 Special Topics: Environmental Systems on a Changing Planet**

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**24300 Maker Series: Intro to CNC Machining**

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**Combustion and Air Pollution Control**
- **Time**: 11:40AM - 01:00PM
- **Location**: CMU REMOTE
- **Instructor**: Rubin

**Engineering Design II: Conceptualization and Realization**
- **Time**: 01:30PM - 02:50PM
- **Location**: CMU REMOTE
- **Instructor**: Presto

**Mechanical Systems Experimentation**
- **Time**: 09:20AM - 10:10AM
- **Location**: CMU REMOTE
- **Instructor**: Ozdoganlar

**Feedback Control Systems**
- **Time**: 06:40PM - 08:30PM
- **Location**: CMU REMOTE
- **Instructor**: Shroff

**Department Research Honors**
- **Time**: TBA
- **Location**: DNM DNM
- **Instructor**: Hertz

**Air Quality Engineering**
- **Time**: 04:00PM - 04:50PM
- **Location**: CMU REMOTE
- **Instructor**: Gordon

**Special Topics: Additive Manufacturing Processing and Product Development**
- **Time**: 01:20PM - 03:10PM
- **Location**: CMU REMOTE
- **Instructor**: Beuth

**Structural Analysis**
- **Time**: 07:00PM - 08:20PM
- **Location**: PH 107E
- **Instructor**: Thompson

**Energy Storage Materials and Systems**
- **Time**: 12:00PM - 01:50PM
- **Location**: CMU REMOTE
- **Instructor**: Whitacre

**Special Topics: Materials and Their Processing for Mechanical Engineers**
- **Time**: 12:00PM - 01:50PM
- **Location**: CMU REMOTE
- **Instructor**: Jayan

**Special Topics: Biomechanics of Human Movement**
- **Time**: 11:40AM - 01:00PM
- **Location**: HOA 160
- **Instructor**: Halilaj

**Introduction to Biomechanics**
- **Time**: 03:20PM - 04:40PM
- **Location**: BH A51
- **Instructor**: Cook

**Electromechanical Systems Design**
- **Time**: 09:20AM - 11:10AM
- **Location**: WEH 7500
- **Instructor**: Bergbreiter

**Special Topics: Linear Control Systems**
- **Time**: 09:50AM - 11:10AM
- **Location**: CMU REMOTE
- **Instructor**: Zhao

**Special Topics: Linear Control Systems**
- **Time**: 03:20PM - 05:10PM
- **Location**: CMU REMOTE
- **Instructor**: Taylor

**Engineering Optimization without Project**
- **Time**: 04:00PM - 05:50PM
- **Location**: CMU REMOTE
- **Instructor**: Michalek

**Introduction to CAD and CAE Tools**
| CRN   | Title                                             | credits | days | Start time | End time    | Location          | Instructor   \\
|-------|---------------------------------------------------|---------|------|------------|-------------|------------------|--------------
| 24691 | Mechanical Engineering Project Management         | 12.0    | A    | 06:40PM    | 08:30PM    | CMU REMOTE      | Crummy      \\
| 24693 | Special Topics: Leadership and Communication      | 12.0    | A    | 09:00AM    | 11:00AM    | POS A35 Pittsburgh, Pennsylvania | Leduc      \\
| 24695 | Telling Your Story: Methods and Skills for Communicating Compelling Research | 6.0     | A2   | 12:00PM    | 01:50PM    | CMU REMOTE      | Cagan       \\
| 24703 | Numerical Methods in Engineering                  | 12.0    | A    | 12:00PM    | 01:50PM    | CMU REMOTE      | Pozzi       \\
| 24704 | Probability and Estimation Methods for Engineering Systems | 12.0    | A    | 06:40PM    | 08:30PM    | CMU REMOTE      | Zhang       \\
| 24711 | Fluid Dynamics                                    | 12.0    | A    | 04:00PM    | 05:50PM    | CMU REMOTE      | Litster      \\
| 24718 | Computational Fluid Dynamics                      | 12.0    | A    | 11:40AM    | 01:00PM    | CMU REMOTE      | Singh       \\
| 24721 | Advanced Thermodynamics                           | 12.0    | A    | 12:00PM    | 01:50PM    | CMU REMOTE      | Viswanathan  \\
| 24722 | Energy System Modeling                            | 12.0    | Lec  | 06:40PM    | 08:30PM    | CMU REMOTE      | Siefert      \\
|       |                                                   |         | M    | 09:10PM    | 10:00PM    | CMU REMOTE      | Siefert      \\
| 24740 | Combustion and Air Pollution Control              | 12.0    | A    | 01:30PM    | 02:50PM    | CMU REMOTE      | Presto       \\
| 24751 | Introduction to Solid Mechanics I                 | 12.0    | A    | 08:00PM    | 09:50PM    | CMU REMOTE      | Steif        \\
| 24753 | Special Topics: Robotic Materials: Designs, Principles & Mechanics | 12.0    | A    | 12:00PM    | 01:50PM    | CMU REMOTE      | Majidi       \\
| 24755 | Finite Elements in Mechanics I                    | 12.0    | A    | 08:00AM    | 09:50AM    | CMU REMOTE      | Dayal        \\
| 24760 | Special Topics: Robot Dynamics and Analysis       | 12.0    | A    | 04:00PM    | 05:50PM    | CMU REMOTE      | Johnson      \\
| 24771 | Linear Systems                                    | 12.0    | A    | 04:00PM    | 05:50PM    | CMU REMOTE      | Kar          \\
|       |                                                   |         | F    | 01:30PM    | 02:50PM    | CMU REMOTE      | Bedillion    \\
| 24774 | Special Topics: Advanced Control Systems Integration | 12.0    | A    | 12:00PM    | 01:50PM    | HOA 160 Pittsburgh, Pennsylvania | Romagnoli  \\
| 24776 | Non Linear Control                                | 12.0    | A    | 05:10PM    | 07:00PM    | CMU REMOTE      | Romagnoli    \\
| 24780 | Engineering Computation                           | 12.0    | A    | 09:20AM    | 11:10AM    | CMU REMOTE      | Yamakawa     \\
|       |                                                   |         | B    | 06:40PM    | 08:30PM    | CMU REMOTE      | Gomez        \\
| 24781 | Engineering Computation Project                   | 12.0    | A    | 12:00PM    | 12:50PM    | CMU REMOTE      | Ozel         \\

**Courses Offered:**

- Mechanical Engineering Project Management (24691)
- Special Topics: Leadership and Communication (24693)
- Telling Your Story: Methods and Skills for Communicating Compelling Research (24695)
- Numerical Methods in Engineering (24703)
- Probability and Estimation Methods for Engineering Systems (24704)
- Fluid Dynamics (24711)
- Computational Fluid Dynamics (24718)
- Advanced Thermodynamics (24721)
- Energy System Modeling (24722)
- Combustion and Air Pollution Control (24740)
- Introduction to Solid Mechanics I (24751)
- Special Topics: Robotic Materials: Designs, Principles & Mechanics (24753)
- Finite Elements in Mechanics I (24755)
- Special Topics: Robot Dynamics and Analysis (24760)
- Linear Systems (24771)
- Special Topics: Advanced Control Systems Integration (24774)
- Non Linear Control (24776)
- Engineering Computation (24780)
- Engineering Computation Project (24781)
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Using Spanish in Social Contexts

Advanced Japanese I

Structure of the Japanese Language

Introduction to Translation

Second Language Acquisition: Theories and Research

Independent Study in Language and Culture-Advanced Level


Russian for Heritage Speakers: Babushka's Russia & Beyond

Topics in Arabic Media

Topics in French and Francophone Studies: Paris between Myths and Realities

Topics in German Literature and Culture: Vienna 1900
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57223  German Diction
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57227  Jazz Instrumental Ensemble:
57228  Jazz Orchestra
   A  MW  08:00PM 09:20PM MM 119 Pittsburgh, Pennsylvania  Defade
57229  Jazz Instrumental Ensemble
57230  Jazz Fusion
   B  W  09:50PM 10:40PM MM 119 Pittsburgh, Pennsylvania  Defade
57231  Baroque Ensemble
3.0  A  MW  09:50AM 11:10AM CFA ACH Pittsburgh, Pennsylvania  Schultz
57232  Chamber Music: Guitar
57233  Sonatas
3.0  A  TBA DNM DNM Pittsburgh, Pennsylvania  Whipple, Marcinizyn
57234  Performance for Composers
3.0  A  TBA DNM DNM Pittsburgh, Pennsylvania  Whipple, Vali, Galbraith
57236  Performance for Composers
3.0  A  TBA DNM DNM Pittsburgh, Pennsylvania  Vali, Whipple, Balada, Smith
57240  Acting I
6.0  A  R  09:10AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania  Trumbull
57241  Orchestration I
6.0  A  TR  09:20AM 10:10AM CFA M160 Pittsburgh, Pennsylvania  Marthaler
57242  Piano Pedagogy I
6.0  A  W  11:30AM 01:10PM CFA M150 Pittsburgh, Pennsylvania  Manriquez
57243  Piano Pedagogy III
6.0  A  W  09:00AM 10:40AM CFA M150 Pittsburgh, Pennsylvania  Manriquez
57244  Music History II
9.0  A  MW  01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania  Johnston
57245  Repertoire and Listening for Musicians II
3.0  Lec  TBA CMU REMOTE Pittsburgh, Pennsylvania  Johnston
57246  Keyboard Studies Test (Degree)
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57247  Beginning Piano Test
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57248  Keyboard Studies Lab
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G T 02:40PM 04:30PM CFA KRESGE Pittsburgh, Pennsylvania Sullivan
Literature and Repertoire
Literature & Repertoire: Tuba
H M 04:50PM 06:10PM CFA KRESGE Pittsburgh, Pennsylvania Knox
Literature and Repertoire
Literature & Repertoire: Flute
I M 06:10PM 07:30PM MM 119 Pittsburgh, Pennsylvania Almarza
Literature and Repertoire
Literature & Repertoire: Viola
J W 01:30PM 02:50PM GYM SGYM Pittsburgh, Pennsylvania Chamis
Literature and Repertoire
Literature & Repertoire: Cello
K TBA DNM DNM Pittsburgh, Pennsylvania Premo
Literature and Repertoire
Literature & Repertoire: Double Bass
L T 08:00PM 09:20PM CFA ACH Pittsburgh, Pennsylvania Guild
Literature and Repertoire
Literature & Repertoire: Harp
M TBA DNM DNM Pittsburgh, Pennsylvania Van Hoesen
Literature and Repertoire
Literature & Repertoire: Saxophone
N TBA DNM DNM Pittsburgh, Pennsylvania Kush, Houlik
Literature and Repertoire
Literature & Repertoire: Euphonium
O T 04:00PM 04:50PM GYM SGYM Pittsburgh, Pennsylvania Laduke
57442 Analytical Techniques
9.0 A TR 10:40AM 11:30AM CMU REMOTE Pittsburgh, Pennsylvania Randall
57444 Principles of Counterpoint
9.0 A TR 09:50AM 11:10AM CFA A2 Pittsburgh, Pennsylvania Whipple
57452 Collaborative Project in Music Entrepreneurship
6.0 A TBA DNM DNM Pittsburgh, Pennsylvania Mead
57454 The Freelance Musician
6.0 A T 11:40AM 01:00PM CFA A2 Pittsburgh, Pennsylvania Mead
57458 Business of Music
6.0 A TR 10:40AM 11:30AM CFA KRESGE Pittsburgh, Pennsylvania Laduke
57467 Production: Crew
3.0 A W 05:00PM 06:30PM GYM SGYM Pittsburgh, Pennsylvania Holcomb
57471 Production: Performance
6.0 A MTWRF 08:00PM 11:20PM GYM SGYM Pittsburgh, Pennsylvania Douglas
57480 History of Black American Music
6.0 A MW 02:40PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Keeling
57487 Advanced Solfege III
3.0 A MWF 12:00PM 12:50PM CFA M160 Pittsburgh, Pennsylvania Jackovic
B MWF 12:00PM 12:50PM CMU REMOTE Pittsburgh, Pennsylvania Jackovic
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57598  Junior Recital
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D2  TBA  DNM DNM Pittsburgh, Pennsylvania  Shields
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F2  TBA  DNM DNM Pittsburgh, Pennsylvania  Shields
G2  TBA  DNM DNM Pittsburgh, Pennsylvania  Shields
H2  TBA  DNM DNM Pittsburgh, Pennsylvania  Shields
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J2  TBA  DNM DNM Pittsburgh, Pennsylvania  Shields

57600  Graduate Forum
0.0  A  R  03:00PM 03:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Johnston, Ito

57605  Theory and Analysis for Graduate Students
6.0  A  TR  12:00PM 12:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Domencic

57606  Music History for Graduate Students 1
9.0  A  W  08:00AM 09:50AM CMU REMOTE  Pittsburgh, Pennsylvania  Lynch

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I  TBA  DNM DNM Pittsburgh, Pennsylvania  Instructor TBA
J  TBA  DNM DNM Pittsburgh, Pennsylvania  Instructor TBA

57612  Independent Study in Theory
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57626  Independent Study in Music Entrepreneurship  
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57630  PPST: Reading  
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57631  PPST: Writing  
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57632  PPST: Mathematics  
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57633  PPST: Total Comprehensive  
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57634  Fundamental Subjects: Content Knowledge  
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57635  Music: Content Knowledge  
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57651  Special Topics in Music:  
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Special Topics in Music:  

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F  02:40PM 03:30PM CMU REMOTE  Pittsburgh, Pennsylvania  

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<td>Chamber Ensemble: Brass</td>
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Major Studio (Bagpipe)  
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Carlisle

Major Studio (Collaborative Piano)  
9.0 A TBA  
DNM DNM Pittsburgh, Pennsylvania  
Carver, Dueck, Manriquez

Beginning Piano for Children I  
6.0 A TBA  
DNM DNM Pittsburgh, Pennsylvania  
Larocca, Manriquez

Art of Sonata Performance  
6.0 A M 04:00PM 05:20PM CFA ACH Pittsburgh, Pennsylvania  
Ojeda

Choral Techniques  
3.0 A TBA  
DNM DNM Pittsburgh, Pennsylvania  
Instructor TBA

Chamber Music Literature I  
6.0 A W 08:00PM 09:20PM CFA KRESGE  
Pittsburgh, Pennsylvania  
Kim

Literature and Repertoire: Brass  
A M 08:00AM 09:20AM CFA KRESGE  
Pittsburgh, Pennsylvania  
Vosburgh

Literature and Repertoire: Percussion  
B M 08:00AM 09:20AM CFA A1  
Pittsburgh, Pennsylvania  
Evans, Branson

Literature and Repertoire: Violin  
C F 01:30PM 02:50PM MM 119  
Pittsburgh, Pennsylvania  
Wu

Literature and Repertoire: Woodwind  
D M 08:00AM 09:20AM CFA ACH  
Pittsburgh, Pennsylvania  
Shields, Thompson

Literature and Repertoire: Trumpet  
E F 01:30PM 02:50PM CFA ACH  
Pittsburgh, Pennsylvania  
Berntsen

Literature and Repertoire: French Horn  
F M 06:40PM 08:00PM CFA A2  
Pittsburgh, Pennsylvania  
Caballero

Literature and Repertoire: Trombone  
G T 02:40PM 04:30PM CFA KRESGE  
Pittsburgh, Pennsylvania  
Sullivan

Literature and Repertoire: Tuba  
H M 04:50PM 06:10PM CFA KRESGE  
Pittsburgh, Pennsylvania  
Knox

Literature and Repertoire: Flute  
I M 06:10PM 07:30PM MM 119  
Pittsburgh, Pennsylvania  
Almarza

Literature and Repertoire: Viola  
J W 01:30PM 02:50PM GYM SGYM  
Pittsburgh, Pennsylvania  
Chamis

Literature and Repertoire: Cello
Literature and Repertoire

**Literature & Repertoire: Double Bass**

- L       T 08:00PM 09:20PM CFA ACH Pittsburgh, Pennsylvania Shields, Guild

**Literature and Repertoire: Harp**

- M       TBA DNM DNM Pittsburgh, Pennsylvania Van Hoesen, Shields

**Literature and Repertoire: Saxophone**

- N       TBA DNM DNM Pittsburgh, Pennsylvania Kush, Houlik

**Literature and Repertoire: Euphonium**

- O       TBA DNM DNM Pittsburgh, Pennsylvania Laduke

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**57740 Opera Literature**

- TBA 6.0 A M 10:40AM 12:30PM CMU REMOTE Pittsburgh, Pennsylvania Lynch

**57741 Sonatas/Songs for Collaborative Pianists I**

- TBA 3.0 A M 06:00PM 06:50PM CFA ACH Pittsburgh, Pennsylvania Carver, Manriquez, Ojeda

**57745 Chamber Music Coaching**

- TBA 3.0 A ACH Pittsburgh, Pennsylvania Manriquez

**57746 Opera Coaching**

- TBA 3.0 A ACH Pittsburgh, Pennsylvania Carver

**57752 Collaborative Project in Music Entrepreneurship**

- TBA 6.0 A ACH Pittsburgh, Pennsylvania Mead

**57754 The Freelance Musician**

- TBA 6.0 A T 11:40AM 01:00PM CFA A2 Pittsburgh, Pennsylvania Mead

**57758 Business of Music**

- TBA 6.0 A TR 10:40AM 11:30AM CFA KRESGE Pittsburgh, Pennsylvania Laduke

**57761 Eurhythmics I**

- MWF 3.0 A B 08:00AM 08:50AM MM 119 Pittsburgh, Pennsylvania Neely

**57763 Eurhythmics III**

- TR 3.0 A B 09:20AM 10:10AM MM 119 Pittsburgh, Pennsylvania Neely

**57769 Sprezzatura: career skills in language I**

- W 6.0 A 12:00PM 01:20PM CFA KRESGE Pittsburgh, Pennsylvania Dueck

**57771 Production: Performance**

- MTWR 6.0 A 08:00PM 11:20PM GYM SGYM Pittsburgh, Pennsylvania Douglas

**57774 Vocal Pedagogy I**

- W 6.0 A 01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Aylmer

**57779 Beginning Piano Practicum I**

- TBA 6.0 A DNM DNM Pittsburgh, Pennsylvania Manriquez
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**Courses and Sections**

- 80501: Philosophy Senior Honors Thesis I
- 80513: Seminar on Philosophy of Mathematics
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B1      TR      03:20PM 04:40PM GES STDM Pittsburgh, Pennsylvania        Gauntner, Stragar

69110  Personal Fitness
3.0 A1      MWF     09:20AM 10:10AM CUC FITNES Pittsburgh, Pennsylvania        Gauntner, Stragar
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Introduction to Yoga
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A2      MWF     01:20PM 02:10PM CUC AR 254 Pittsburgh, Pennsylvania        Gauntner, Stragar
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33996 Practicum in Physics
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33997 Graduate Laboratory
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33998 Thesis Research
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85050 Study Abroad
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85101 Psychology Research Requirement
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85102 Introduction to Psychology
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Psychopathology
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85105 Hack Your Life
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85150 Cognitive Science at CMU and beyond
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85198 Research Training: Psychology 9.0 A TBA TBA Pittsburgh, Pennsylvania Helgeson
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Robotics

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MSCV Capstone: 12.0

MSCV Capstone
A F 09:50AM 11:10AM 4SC 104 Pittsburgh, Pennsylvania Mertz, Kitani

Manipulation, Estimation, and Control
12.0 A MW 09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Kantor

Systems Engineering and Management for Robotics
12.0 A TR 11:40AM 01:00PM NSH 3305 Pittsburgh, Pennsylvania Apostolopoulos
B TR 11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Apostolopoulos

Robot Mobility on Air, Land, & Sea
12.0 A TR 03:20PM 04:40PM CMU REMOTE Pittsburgh, Pennsylvania Kaess, Dolan

Robotic Systems Development Project Course II: 15.0

Robotics Business: 9.0

Advanced Topics in Robotics Business
A TR 05:10PM 06:30PM CMU REMOTE Pittsburgh, Pennsylvania Bourne

Computer Vision
12.0 A TR 05:10PM 06:30PM PH 100 Pittsburgh, Pennsylvania Narasimhan

Computer Vision
TBA

Sensing and Sensors
12.0 A MW 03:20PM 04:40PM CMU REMOTE Pittsburgh, Pennsylvania Riviere

Learning for Manipulation: 12.0

Learning for Manipulation
A MW 08:00AM 09:20AM CMU REMOTE Pittsburgh, Pennsylvania Kroemer

Mechanics of Manipulation
12.0 A MW 11:40AM 01:00PM CMU REMOTE Pittsburgh, Pennsylvania Mason

Underactuated Robots
12.0 A TR 03:20PM 04:40PM HL A4 Pittsburgh, Pennsylvania Travers

Planning and Decision-making in Robotics
12.0 A MW 01:30PM 02:50PM CMU REMOTE Pittsburgh, Pennsylvania Likhachev

Applied Data Science
12.0 A TR 09:50AM 11:10AM CMU REMOTE Pittsburgh, Pennsylvania Dubrawski

Mathematical Fundamentals for Robotics
12.0 A TR 03:20PM 04:40PM POS A35 Pittsburgh, Pennsylvania Erdmann
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Statistical Techniques in Robotics
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Robot Localization and Mapping
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Insects and Robots
12.0  A  TR  08:00AM 09:20AM CMU REMOTE  Pittsburgh, Pennsylvania  Temel

SPACE ROBOTICS
12.0  A  MW  03:20PM 04:40PM CMU REMOTE  Pittsburgh, Pennsylvania  Whittaker

Human Robot Interaction
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Biomechanics & Motor Control
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Sensor Systems: 12.0

Sensor Systems
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Special Topics in Geometry-based Methods in Vision:  12.0

Special Topics in Geometry-based Methods in Vision
A  MW  01:30PM 02:50PM CMU REMOTE  Pittsburgh, Pennsylvania  Kitani, Narasimhan

Seminar on Robotics
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Adaptive Control and Reinforcement Learning:  12.0

Adaptive Control and Reinforcement Learning
C  TR  08:00AM 09:20AM CMU REMOTE  Pittsburgh, Pennsylvania  Liu

Practicum
1-48  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Wettergreen

Independent Study
0-36  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Wettergreen

Reading and Research in Robotics
0-48  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Wettergreen

PP  TBA  TBA  Lisbon, Portugal  Wettergreen

SCS Interdisciplinary

First Year Immigration Course
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Freshmen Immigration Course
3.0  W1  MW  01:30PM 02:50PM CMB 1202  Doha, Qatar  Harras

Great Practical Ideas for Computer Scientists
2.0  A  R  03:20PM 04:40PM CMU REMOTE  Pittsburgh, Pennsylvania  Cortina

Independent Study in CS Education (Undergraduate)
VAR  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Cortina, Garrod

SCS Honors Undergraduate Research Thesis
VAR  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Cortina
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36750  Statistical Computing
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36760  Central Limit Theorem and Resampling
       6.0     A1      MW      01:30PM 02:50PM BH A51 Pittsburgh, Pennsylvania        Kuchibhotla

36761  Modern Theory of Linear Regression
       6.0     A2      MW      01:30PM 02:50PM BH A51 Pittsburgh, Pennsylvania        Kuchibhotla

36765  Writing in Statistics
       3.0     A       T       01:30PM 02:50PM CIC 1301        Pittsburgh, Pennsylvania        Branson, Junker

36795  Interdisciplinary Applied Research
       12.0    A       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Nugent
                      DNM DNM Pittsburgh, Pennsylvania        Kennedy
B       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Jin
C       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Lee
D       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Ramdas
E       TBA           PN DNM DNM Pittsburgh, Pennsylvania        G’Sell
F       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Tibshirani
G       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Kass
H       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Rinaldo
J       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Wasserman
K       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Rinaldo
L       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Schervish
M       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Kuusela
N       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Haviland
O       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Seidenfeld

36995  Reading and Research
       1-48    A       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Chouldechova
                      PN DNM DNM Pittsburgh, Pennsylvania        Ventura
B       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Junker
C       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Neykov
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K       TBA           PN DNM DNM Pittsburgh, Pennsylvania        Shalizi
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98295 Student Taught Courses (StuCo): Lock Picking and Physical Security
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3.0 B T 08:00PM 08:50PM CMU REMOTE Pittsburgh, Pennsylvania Della Grotte

98303 Student Taught Courses (StuCo): Introduction to Freestyle Rap
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98317 Student Taught Courses (StuCo): Hype for Types
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98331 Student Taught Courses (StuCo): Animation and Video Editing
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98335 Student Taught Courses (StuCo): Introduction to Glowstringing/Poi
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98336 Student Taught Courses (StuCo): Introduction to Greek Mythology
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98338 Student Taught Courses (StuCo): Memes for StuCo-Taking Teens
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98350 Student Taught Courses (StuCo): Introduction to Bridge
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98352 Student Taught Courses (StuCo): Introduction to Star Trek
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98359 Student Taught Courses (StuCo): Survey of Horror in Media
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98360 Student Taught Courses (StuCo): GEB
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98367 Student Taught Courses (StuCo): PPAP: Paradoxical Perception Amongst People: TBA

TBA

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98368 Student Taught Courses (StuCo): Introduction to the Kardashians
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98369 Student Taught Courses (StuCo): Brooklyn Nine-Nine
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98370 Student Taught Courses (StuCo): Mysteries of the Universe
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98371 Student Taught Courses (StuCo): Introduction to Old Irish
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98372 Student Taught Courses (StuCo): Introduction to Battlestar Galactica
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98373 Student Taught Courses (StuCo): The Legend of Zelda: The Tri Course
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98374 Student Taught Courses (StuCo): Steep by Steep: Investegeation into Tea Culture
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98375 Student Taught Courses (StuCo): Introduction to Meta-Learning
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45700  Financial and Managerial Accounting I
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- **B1** TR 08:00AM 10:10AM CMU REMOTE Pittsburgh, Pennsylvania Pierce
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Acting for Business I

- **A1** MW 01:20PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Hitch
- **A2** MW 04:00PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania Hitch
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Acting for Business II

- **6.0 A2** TR 01:20PM 03:30PM CMU REMOTE Pittsburgh, Pennsylvania Hitch

Corporate Communications Simulation

- **M1** R 08:30PM 09:45PM CMU REMOTE Pittsburgh, Pennsylvania Placone

Funding Early Stage Ventures

- **6.0 E2** MW 07:30PM 09:15PM CMU REMOTE Pittsburgh, Pennsylvania Demmler

Commercialization and Innovation: Workshop

- **6.0 A2** MW 01:20PM 03:30PM TBA Pittsburgh, Pennsylvania Markovitz

Marketing for Entrepreneurship

- **6.0 E2** T 07:30PM 10:00PM CMU REMOTE Pittsburgh, Pennsylvania Blattberg, Mawhinney

Technology and Future of Work

- **A2** MW 10:40AM 11:30AM CMU REMOTE Pittsburgh, Pennsylvania Ales
- **B2** MW 12:00PM 12:50PM TEP 2202 Pittsburgh, Pennsylvania Ales

Entrepreneurship Through Acquisition Workshop

- **E2** MW 07:30PM 09:15PM CMU REMOTE Pittsburgh, Pennsylvania Caric

Special Project Course

- **6.0 A2** TBA DNM DNM Pittsburgh, Pennsylvania Markovitz

Customer-Driven Strategies and Services

- **6.0 E2** MW 07:30PM 10:00PM CMU REMOTE Pittsburgh, Pennsylvania Kelley

Marketing Communication for Consumer Brands

- **6.0 A1** MW 04:00PM 06:10PM CMU REMOTE Pittsburgh, Pennsylvania Murphy

Interactive Marketing

- **6.0 A2** MW 10:40AM 11:30AM TEP 2112 Pittsburgh, Pennsylvania Montgomery
- **B2** MW 12:00PM 12:50PM CMU REMOTE Pittsburgh, Pennsylvania Montgomery
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46904 Financial Computing IV: 6.0
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Financial Computing IV
I2 MW 03:20PM 04:40PM BRD 516 New York, New York Kramkov

46906 MSCF Business Communication I
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I W 09:20AM 10:20AM TCS 251 Pittsburgh, Pennsylvania Barr
M M 09:20AM 10:20AM BRD 516 New York, New York Barr
N M 12:00PM 01:00PM BRD 516 New York, New York Barr

46915 Advanced Derivative Models:
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Advanced Derivative Models
I1 MW 01:30PM 03:00PM TCS 251 Pittsburgh, Pennsylvania Larsson

Advanced Derivative Models
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46921 Financial Data Science I
6.0 I1 TR 09:50AM 11:20AM TCS 250 Pittsburgh, Pennsylvania Schafer
M1 TR 09:50AM 11:20AM BRD 507 New York, New York Schafer

46923 Financial Data Science II
6.0 I2 MW 01:30PM 03:00PM TCS 250 Pittsburgh, Pennsylvania Schafer
M2 MW 01:30PM 03:00PM BRD 507 New York, New York Schafer

46926 Machine Learning I: 6.0

Machine Learning I
I2 MW 03:20PM 04:40PM TCS 250 Pittsburgh, Pennsylvania G’Sell

Machine Learning I
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46941 Multi-Period Asset Pricing:
6.0

Multi Period Asset Pricing
I2 TR 03:20PM 04:40PM TCS 250 Pittsburgh, Pennsylvania Kramkov

Multi-Period Asset Pricing
I2 TR 03:20PM 04:40PM BRD 507 New York, New York Kramkov

46954 Risk Management
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Fixed Income: 6.0

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Macroeconomics for Computational Finance: 6.0

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Financial Optimization

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MSCF Studies in Financial Engineering

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Asset Management

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Market Microstructure and Algorithmic Trading: 6.0

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Market Microstructure and Algorithmic Trading

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Machine Learning Capstone Project

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Seminar in Accounting
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Seminar in Organizational Behavior (Micro)
6.0  A2  R  01:20PM 05:10PM CMU REMOTE  Pittsburgh, Pennsylvania  Cohen

Seminar in Organizational Behavior (Macro)
6.0  A1  T  01:20PM 05:10PM CMU REMOTE  Pittsburgh, Pennsylvania  Aven

Seminar in Meso OB
6.0  A2  MW  09:20AM 11:10AM CMU REMOTE  Pittsburgh, Pennsylvania  Woolley

Tepper PhD:  1-36
TBA

Tepper PhD
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Economining I:  6.0

Economining

A2  R  05:00PM 08:00PM CMU REMOTE  Pittsburgh, Pennsylvania  Lee

Independent Study
3.6  A2  TBA  DNM DNM Pittsburgh, Pennsylvania  Instructor TBA

Doctoral Independent Study
VAR  A1  TBA  DNM DNM Pittsburgh, Pennsylvania  Instructor TBA

Tepper PhD Internship
3-36  A  TBA  DNM DNM Pittsburgh, Pennsylvania  Instructor TB