

MD/MAS Overview

Alexis Beatty, MD, MAS
alexis.beatty@ucsf.edu

What is the MAS degree?

Master of Advanced Study in Clinical Research

Why should you get a MAS?

Learn how knowledge is generated in public health and clinical medicine

Apply your learning to generate new knowledge

Enhance chance at success for a career in clinical research

Even if you do not choose a career in research, knowing how knowledge is generated will help you critically evaluate evidence in your medical career.

What does the MAS involve?

Courses



≥ 36 units over 6 quarters

Products of Research



- Comprehensive literature critique
- First-authored abstract presented at scientific meeting
- First-authored manuscript submitted for peer-review

Teaching



Teaching assistant for one course

| Quarter | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | |
|-----------|--------------------------------|------------------------------|----------------------------------------------|--------------|------------------------|----------|
| Summer II | Vacation Launch | Vacation/Inquiry | Foundations 2: Block 4 | MAS Summer | Career Launch: Block 5 | |
| Fall | CIC IDS 121A Ground School CMC | CIC IDS 122A Life Stages CMC | IDS 117B ARCH 6 | MAS Fall | IDS 117D ARCH Break | |
| | IDS 121A ARCH 1 | | Foundations 2: Block 5 | | MAS Fall | |
| | CIC IDS 121B ABC 1 CMC | CIC IDS 122B BMB CMC | Foundations 2: Block 6 | | | MAS Fall |
| | CIC IDS 121B H&I CMC | | | | | |
| | CIC IDS 121B ABC 2 CMC | IDS 122B ARCH 4 | | | | |
| | IDS 121B ARCH 2 | CIC IDS 122C DR CMC | Longitudinal FCM 110/IDS 113 FS-In-F2 | | | |
| Winter | Winter Break | Winter Break | Winter Break | Winter Break | Winter Break | |
| | IDS 123A Inquiry Immersion | Foundations 2: Block 1 | Licensing Exams | MAS Winter | MAS Winter | |
| | CIC IDS 121C REGN CMC | | | | | |
| Spring | CIC IDS 121C H&S CMC | Foundations 2: Block 2 | IDS 119 Intro to Career Launch / IDS 120 DCR | Spring Break | Career Launch: Block 6 | |
| | IDS 121C ARCH 3 | | Career Launch: Block 1 | MAS Spring | Coda | |
| | Vacation | IDS 117A ARCH 5 | IDS 117C ARCH 7 | | | |
| Summer I | CIC IDS 121D PHD CMC | Foundations 2: Block 3 | Career Launch: Block 2 | MAS Spring | Career Launch: Block 4 | |
| | | | Career Launch: Block 3 | | | |
| | Vacation/Inquiry | Foundations 2: Block 4 | Break | | | |

How is the MAS paid for?

- Yearlong Inquiry Program (TL1) *competitive*
 - Apply for 1 of 10 spots to fund MAS Year 1 tuition and ~\$34,800 stipend
 - Due Date to Inquiry Funding Office ~ March 30
 - Only pays for Year 1
- Other grant
- Funds from mentor
- Financial aid

What else should I know about MD/MAS?

- Designing Clinical Research – take SOM Spring or MAS Summer II
- Career Launch
 - Recommend 3 blocks SOM Spring Year 3
 - Advance planning required for away rotations
- SPAN – Final year Fall/Winter Quarters
- Deep Explore Requirement – Satisfied by MAS
- MD with Distinction – Can submit MAS products of research

How do I apply?

1. Yearlong Inquiry Program / Inquiry Funding Office
2. MAS Program Application
 - Rolling admissions Jan – April 30
 - Don't need to complete graduate division application

Inquiry Funding Office (Yearlong Program)

<https://meded.ucsf.edu/inquiry-funding-office>

MD/MAS

<https://meded.ucsf.edu/md-program/current-students/education-programs/mdmasters-advanced-studies-mdmas>

Alexis.beatty@ucsf.edu



UCSF



Back-up Slides

Curriculum - Required

| | Summer | Fall | Winter | Spring |
|--------|------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------|
| Year 1 | EPI 201 <i>Responsible Conduct of Research</i> | EPI 203 <i>Epidemiologic Methods</i> | EPI 205 <i>Clinical Trials</i> | EPI 212 <i>Publishing/ Presenting Research</i> |
| | EPI 202 <i>Designing Clinical Research</i> | EPI 204 <i>Clinical Epidemiology</i> | BIO 208 <i>Biostatistical Methods II</i> | EPI 214 <i>Systematic Reviews</i> |
| | EPI 218 <i>Database Management</i> | BIO 200 <i>Biostatistical Methods I</i> | EPI 220/230 <i>TICR Seminar I</i> | BIO 209 <i>Biostatistical Methods III</i> |
| | BIO 212 <i>Intro. to Statistical Computing</i> | EPI 220/230 <i>TICR Seminar I</i> | EPI 222 <i>Social Determinants of Health</i> | EPI 220/230 <i>TICR Seminar I</i> |
| Year 2 | | Fall | Winter | |
| | | BIO 210 <i>Biostatistical Methods IV</i> | EPI 221 <i>Master's Seminar II</i> | |
| | | EPI 221 <i>Master's Seminar II</i> | | |

Curriculum - Electives

| Summer | Fall | Winter | Spring |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BIO 202 <i>Intro. to Science of Big Data</i> | EPI 263 <i>Demographic Methods for Health</i> EPI 264 <i>Spatial Epidemiology</i> EPI 268 <i>Econometric Methods for Causal Inference</i> | EPI 206 <i>Medical Informatics</i> EPI 207 <i>Epi Methods II</i> EPI 210 <i>Epidemiology of Aging</i> EPI 213 <i>Cost-Effectiveness Analysis</i> EPI 217 <i>Molecular and Genetic Epidemiology</i> EPI 246 <i>Individual-Centered Implementation</i> EPI 247 <i>System-centered Implementation</i> EPI 252 <i>Cancer Epidemiology</i> EPI 262 <i>Pharmacoepidemiology</i> EPI 266 <i>Modeling of Infectious Diseases</i> BIO 226 <i>Statistical Issues in Randomized Trials</i> | EPI 245 <i>Intro. to Translating Evidence into Practice</i> EPI 248 <i>Community- Engaged Research</i> EPI 265 <i>Epi Methods III</i> EPI 223 <i>Advanced Social Determinants of Health</i> BIO 215 <i>Advanced Analysis of Observational Data</i> |

Products of Research



Comprehensive literature critique

- Regarding a specific research question in student's research field
- Complete and unbiased search for all relevant sources
- Objective: demonstrate ability to provide high-level critique of threats to validity and draw conclusions



First-authored abstract presented at scientific meeting

- Study of a comparative nature (not a case report/series) or a descriptive study with meaningful sample
- Represents a substantive contribution to the research field



First-authored manuscript submitted for peer-review

- Study of a comparative nature or meaningful descriptive study
- May be a comprehensive extension of the abstract

Traditional MD Schedule - FYI

Year 1

| | | |
|------------|----------------------------|-----|
| 7/31/2017 | Launch (8/1 Start) | |
| 8/7/2017 | IDS 121A Ground School | CMC |
| 8/14/2017 | | |
| 8/21/2017 | | |
| 8/28/2017 | | |
| 9/4/2017 | | |
| 9/11/2017 | IDS 121A ARCH 1 | |
| 9/18/2017 | | |
| 9/25/2017 | IDS 121B ABC 1 | CMC |
| 10/2/2017 | | |
| 10/9/2017 | | |
| 10/16/2017 | | |
| 10/23/2017 | IDS 121B H&I | CMC |
| 10/30/2017 | | |
| 11/6/2017 | | |
| 11/13/2017 | | |
| 11/20/2017 | IDS 121B ABC 2 | CMC |
| 11/27/2017 | | |
| 12/4/2017 | | |
| 12/11/2017 | IDS 121B ARCH 2 | |
| 12/18/2017 | | |
| 12/25/2017 | Winter Break | |
| 1/1/2018 | | |
| 1/8/2018 | IDS 123A Inquiry Immersion | |
| 1/15/2018 | | |
| 1/22/2018 | | |
| 1/29/2018 | | |
| 2/5/2018 | IDS 121C REGN | CMC |
| 2/12/2018 | | |
| 2/19/2018 | | |
| 2/26/2018 | | |
| 3/5/2018 | | |
| 3/12/2018 | | |
| 3/19/2018 | IDS 121C H&S | CMC |
| 3/26/2018 | | |
| 4/2/2018 | IDS 121C ARCH 3 | |
| 4/9/2018 | Vacation | |
| 4/16/2018 | | |
| 4/23/2018 | | |
| 4/30/2018 | | |
| 5/7/2018 | | |
| 5/14/2018 | IDS 121D PHD | CMC |
| 5/21/2018 | | |
| 5/28/2018 | | |
| 6/4/2018 | | |
| 6/11/2018 | | |
| 6/18/2018 | | |
| 6/25/2018 | | |
| 7/2/2018 | | |
| 7/9/2018 | Vacation/Inquiry | |
| 7/16/2018 | | |
| 7/23/2018 | | |
| 7/30/2018 | | |

Year 2

| | | |
|------------|------------------------|------------------------------------|
| 8/6/2018 | Vacation/Inquiry | |
| 8/13/2018 | | |
| 8/20/2018 | | |
| 8/27/2018 | IDS 122A Life Stages | CM C |
| 9/3/2018 | | |
| 9/10/2018 | | |
| 9/17/2018 | | |
| 9/24/2018 | | |
| 10/1/2018 | | |
| 10/8/2018 | | |
| 10/15/2018 | IDS 122B BMB | CM C |
| 10/22/2018 | | |
| 10/29/2018 | | |
| 11/5/2018 | | |
| 11/12/2018 | | |
| 11/19/2018 | Vacation | |
| 11/26/2018 | IDS 122C ARCH 4 | |
| 12/3/2018 | | |
| 12/10/2018 | IDS 122C DR | CM C |
| 12/17/2018 | | |
| 12/24/2018 | | |
| 12/31/2018 | Winter Break | |
| 1/7/2019 | | |
| 1/14/2019 | | |
| 1/21/2019 | | |
| 1/28/2019 | Foundations 2: Block 1 | Longitudinal FCM 110/FS-in-F2 Days |
| 2/4/2019 | | |
| 2/11/2019 | | |
| 2/18/2019 | | |
| 2/25/2019 | | |
| 3/4/2019 | | |
| 3/11/2019 | | |
| 3/18/2019 | Foundations 2: Block 2 | |
| 3/25/2019 | | |
| 4/1/2019 | | |
| 4/8/2019 | | |
| 4/15/2019 | | |
| 4/22/2019 | | |
| 4/29/2019 | ARCH 5 | |
| 5/6/2019 | | |
| 5/13/2019 | | |
| 5/20/2019 | | |
| 5/27/2019 | Foundations 2: Block 3 | Longitudinal FCM 110/FS-in-F2 Days |
| 6/3/2019 | | |
| 6/10/2019 | | |
| 6/17/2019 | | |
| 6/24/2019 | | |
| 7/1/2019 | | |
| 7/8/2019 | Foundations 2: Block 4 | |
| 7/15/2019 | | |
| 7/22/2019 | | |

Year 3

| | | |
|------------|-----------------------------------------------------|------------------------------------|
| 7/29/2019 | Foundations 2: Block 4 | |
| 8/5/2019 | | |
| 8/12/2019 | | |
| 8/19/2019 | ARCH 6 | |
| 8/26/2019 | | |
| 9/2/2019 | | |
| 9/9/2019 | | |
| 9/16/2019 | | |
| 9/23/2019 | Foundations 2: Block 5 | Longitudinal FCM 110/FS-in-F2 Days |
| 9/30/2019 | | |
| 10/7/2019 | | |
| 10/14/2019 | | |
| 10/21/2019 | | |
| 10/28/2019 | | |
| 11/4/2019 | | |
| 11/11/2019 | Foundations 2: Block 6 | |
| 11/18/2019 | | |
| 11/25/2019 | | |
| 12/2/2019 | | |
| 12/9/2019 | | |
| 12/16/2019 | | |
| 12/23/2019 | Winter Break | |
| 12/30/2019 | | |
| 1/6/2020 | | |
| 1/13/2020 | | |
| 1/20/2020 | | |
| 1/27/2020 | Licensing Exams | |
| 2/3/2020 | | |
| 2/10/2020 | | |
| 2/17/2020 | | |
| 2/24/2020 | | |
| 3/2/2020 | | |
| 3/9/2020 | Intro to Career Launch/ Designing Clinical Research | |
| 3/16/2020 | | |
| 3/23/2020 | | |
| 3/30/2020 | Career Launch: Block 1 | |
| 4/6/2020 | | |
| 4/13/2020 | | |
| 4/20/2020 | ARCH 7 | |
| 4/27/2020 | | |
| 5/4/2020 | | |
| 5/11/2020 | Career Launch: Block 2 | |
| 5/18/2020 | | |
| 5/25/2020 | | |
| 6/1/2020 | | |
| 6/8/2020 | Career Launch: Block 3 | |
| 6/15/2020 | | |
| 6/22/2020 | | |
| 6/29/2020 | | |
| 7/6/2020 | Career Launch: Block 4 | |
| 7/13/2020 | | |
| 7/20/2020 | | |

Year 4

| | | |
|------------|-------------------------|--|
| 7/29/2020 | | |
| 8/3/2020 | Career Launch: Block 5 | |
| 8/10/2020 | | |
| 8/17/2020 | ARCH 8 | |
| 8/24/2020 | | |
| 8/31/2020 | | |
| 9/7/2020 | Career Launch: Block 6 | |
| 9/14/2020 | | |
| 9/21/2020 | | |
| 9/28/2020 | | |
| 10/5/2020 | Career Launch: Block 7 | |
| 10/12/2020 | | |
| 10/19/2020 | | |
| 10/26/2020 | | |
| 11/2/2020 | Career Launch: Block 8 | |
| 11/9/2020 | | |
| 11/16/2020 | | |
| 11/23/2020 | Career Launch: Block 9 | |
| 11/30/2020 | | |
| 12/7/2020 | | |
| 12/14/2020 | Winter Break | |
| 12/21/2020 | | |
| 12/28/2020 | | |
| 1/4/2021 | | |
| 1/11/2021 | Career Launch: Block 10 | |
| 1/18/2021 | | |
| 1/25/2021 | | |
| 2/1/2021 | Career Launch: Block 11 | |
| 2/8/2021 | | |
| 2/15/2021 | | |
| 2/22/2021 | | |
| 3/1/2021 | Career Launch: Block 12 | |
| 3/8/2021 | | |
| 3/15/2021 | | |
| 3/22/2021 | | |
| 3/29/2021 | Career Launch: Block 13 | |
| 4/5/2021 | | |
| 4/12/2021 | | |
| 4/19/2021 | | |
| 4/26/2021 | | |
| 5/3/2021 | Coda | |
| 5/10/2021 | | |