

Master of Science in Biomedical and Translational Science (MS-BATS)

Graduate Student Handbook



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Welcome New Students

The field of research on a national level has seen a steady decline of well-trained clinical investigators capable of conducting high quality studies. For this reason, Dr. Sherrie Kaplan developed the Masters of Science degree in Biomedical and Translational Science (MS-BATS) at UC Irvine School of Medicine in 2012.

This program is the result of the vision, leadership, dedication and support of many here at UC Irvine.

This degree program is designed to address the acute need for researchers trained to meet the increasingly sophisticated demands of the clinical research environment. It provides advanced training in experimental study to bridge the gap between clinical medicine and basic sciences leading to the translation of scientific discoveries into practical applications that benefit society through patient care.

The program brings together a strong interdisciplinary team of UC Irvine faculty in the clinical and basic sciences in order to teach and prepare scientists in the future conduct of clinical research.

Deadlines

Forms and BATS Deadlines For 2-year Program Student

Form and Deadline

BATS 1, 2, 3

With Dr. Kaplan's approval, complete these forms when you have identified research topic and members of your Thesis Committee:

- 1 - MS BATS Individual Research Plan
- 2 - Thesis Committee Confirmation
- 3 - Research Proposal

Fall 2021

BATS 299 - Independent Directed Research

1. If this is the first quarter you are enrolled in BATS 299, complete **pages 1 and 2**
2. If you were enrolled in BATS 299 in the previous quarter, complete **BATS 299 Addendum**
3. It is the student's responsibility to submit this form to Dr. Kaplan, copy Thuy (ttp@hs.uci.edu) and Kaelyn (seek@hs.uci.edu) in a timely manner. Failure to do so may impact grade.

Fall 2021/Winter 2021/Spring 2021

Advancement to Candidacy

Complete this form only when Director Kaplan and your Thesis Committee determines that you are ready to defend.

Spring 2021

Final Degree Paperwork

At the time of defense, complete Master's Thesis Signature Page, Master's Thesis Checklist, Master's Exit survey, Proquest, and Degree Certification Request forms.

Summer 2021

***Refer to your timeline for actual dates

**Forms and BATS Deadlines
For 2-year Student who completed Certificate Program**

Form and Deadline

BATS 1, 2, 3

With Dr. Kaplan's approval, complete these forms when you have identified research topic and members of your Thesis Committee:

- 1 - MS BATS Individual Research Plan
- 2 - Thesis Committee Confirmation
- 3 - Research Proposal

Fall 2020

General Petition

Complete this form if you completed BATS courses through the **Certificate** program in order to receive credit, accompanied by an official transcript.

Fall 2020

BATS 299 - Independent Directed Research

1. If this is the first quarter you are enrolled in BATS 299, complete **pages 1 and 2**
2. If you were enrolled in BATS 299 in the previous quarter, complete **BATS 299 Addendum**
3. It is the student's responsibility to submit this form to Dr. Kaplan, copy Thuy (ttp@hs.uci.edu) and Kaelyn (seek@hs.uci.edu) in a timely manner. Failure to do so may impact grade.

Fall 2020/Winter 2021/Spring 2021

Advancement to Candidacy

Complete this form only when Director Kaplan and your Thesis Committee determines that you are ready to defend.

Spring 2021

Final Degree Paperwork

At the time of defense, complete Master's Thesis Signature Page, Master's Thesis Checklist, Master's Exit survey, Proquest, and Degree Certification Request forms.

Summer 2021

***Refer to your timeline for actual dates

Forms and BATS Deadlines For 1-year (Accelerated) Student

Form and Deadline

BATS 1, 2, 3

With Dr. Kaplan's approval, complete these forms when you have identified research topic and members of your Thesis Committee:

- 1 - MS BATS Individual Research Plan
- 2 - Thesis Committee Confirmation
- 3 - Research Proposal

Fall 2020

General Petition

Complete this form if you completed BATS courses through the **Certificate** program in order to receive credit, accompanied by an official transcript.

Fall 2020

BATS 299 - Independent Directed Research

1. If this is the first quarter you are enrolled in BATS 299, complete **pages 1 and 2**
2. If you were enrolled in BATS 299 in the previous quarter, complete **BATS 299 Addendum**
3. It is the student's responsibility to submit this form to Dr. Kaplan, copy Thuy (ttp@hs.uci.edu) and Kaelyn (seek@hs.uci.edu) in a timely manner. Failure to do so may impact grade.

Fall 2020/Winter 2021/Spring 2021

Advancement to Candidacy

Complete this form only when Director Kaplan and your Thesis Committee determines that you are ready to defend.

Winter 2021 or Spring 2021

Final Degree Paperwork

At the time of defense, complete Master's Thesis Signature Page, Master's Thesis Checklist, Master's Exit survey, Proquest, and Degree Certification Request forms.

Spring 2021 or Summer 2021

***Refer to your timeline for actual dates

Time to Degree

2-Year Curriculum
Master of Science Degree
Biomedical and Translational Science

The curriculum to earn the Master of Science degree in Biomedical and Translational Science (MS-BATS) requires two years [six (6) academic quarters plus one (1) summer quarter] of coursework and research training. During their first year, students will focus on required coursework needed to establish a solid foundation in the fundamental disciplines underlying modern biomedical and clinical research. The second year curriculum provides extensive research training where students will choose a research mentor and apply those principals learned during their first year of coursework.

***A total of 50 units is the minimum requirement in order to earn BATS degree.

MS-BATS - Two-Year Curriculum				
Year 1	Summer	Fall	Winter	Spring
Saturday	Ethics in Clinical Research (BATS 296)	Introduction to Medical Statistics (BATS 209A)	Introduction to Clinical Epidemiology (BATS 210A)	Design and Analysis of Clinical Trials (BATS 232)
Thursday		Health Politics and Policy (BATS 255)	Introduction to Medical Statistics II (BATS 209B)	Quality Efficiency and Cost Effectiveness (BATS 251)
Thursday		Disparities in Health and Healthcare (BATS 253)	Measurement Science, Outcomes Research & Advanced Applied Methods (BATS 247)	Comparative Effectiveness Research (BATS 245A)
Thursday		BATS (280) Seminar	BATS (280) Seminar	BATS (280) Seminar
Year 2				
		<i>Optional Elective</i>	<i>Optional Elective</i>	<i>Optional Elective</i>
		Independent Directed Research (BATS 299)	Independent Directed Research (BATS 299)	Independent Directed Research (BATS 299)
		MS Thesis Research & Writing (BATS 295)	MS Thesis Research & Writing (BATS 295)	MS Thesis Research & Writing (BATS 295)

Proposed Timeline for 2-year Program Student

***The information below provides a general overview of the timeline to complete the Master of Science degree in Biomedical and Translational Science. Dates may differ slightly for each student.

Registration: Students are personally responsible for ensuring that their course enrollment is correct and completed, and **have their fees paid**, no later than the end of the third week of **each quarter**:

<https://www.reg.uci.edu/enrollment/registration.html>

Year 1

1. Follow the **2-Year Curriculum** grid.
2. Refer to **Forms and BATS Deadlines for 2-year Program Student**
3. Ethics (BATS 296) course may be taken at the start or at the end of Year 1.

Year 2

Fall Quarter

1. Conduct research, draft your thesis, form your Thesis Committee
2. It is the **student's responsibility** to meet with thesis committee regularly, set meeting agendas, prepare discussion materials. Ask questions early!

Winter Quarter

Continue working on your thesis.

Spring Quarter

With Director Kaplan's approval, the student confirms with each Committee member that they are ready to advance and plan to defend their thesis in the following quarter. The student is responsible in making sure the **Advancement to Candidacy** form is agreed **and** signed by each Committee member, submitted to and approved by Graduate Division one quarter before the student defends and plan on graduating.

IMPORTANT: Graduate Division Filing Deadlines are strict and non-negotiable.

Summer Quarter

1. You must be enrolled as a student in order to earn a degree.
2. You can only defend your thesis when each Committee member agrees you are ready to present your findings.
3. Failure to send the best version of your thesis to your Committee members for review before your actual defense may result in cancelation of your defense presentation.
4. After you defend, you must have Committee approval before submitting a thesis electronically. The library is very particular about the format of the thesis. There will be information sessions that discuss thesis preparation and filing procedures.
5. Last step is paying the Master's Thesis Submission Fee at the Cashier's office and bringing **Final Degree Paperwork** to Graduate Division office.

Final Degree Paperwork:

- Master's Thesis Submission Checklist
- Master's Thesis/Signature Page Report on Final Examination for the Master's Degree
- Confirmation email of thesis submission from Administrator@proquest.com
- Confirmation page of UCI Master's Exit Survey: <https://apps.grad.uci.edu/exitsurvey/>
- Degree Certification Request form

M.S. degree conferred!

Diploma:

You will receive a master's diploma 4 months later. Diplomas are not automatically mailed. Make sure the Registrar has a correct address before you leave. They will use this address to let you know when to pick up your diploma.

2-Year Curriculum
(For students who have successfully completed Clinical Research Certificate Program)
Master of Science Degree
Biomedical and Translational Science

The curriculum to earn the Master of Science degree in Biomedical and Translational Science (MS-BATS) requires two years [six (6) academic quarters plus one (1) summer quarter] of coursework and research training. During their first year, students will focus on required coursework needed to establish a solid foundation in the fundamental disciplines underlying modern biomedical and clinical research. The second year curriculum provides extensive research training where students will choose a research mentor and apply those principals learned during their first year of coursework.

***A total of 50 units is the minimum requirement in order to earn BATS degree.

Student completes course requirements of the Clinical Research Certificate Program in Year 1				
Year 1	Summer	Fall	Winter	Spring
Saturday	Ethics in Clinical Research (BATS 296)	Introduction to Medical Statistics (BATS 209A)	Introduction to Clinical Epidemiology (BATS 210A)	Design and Analysis of Clinical Trials (BATS 232)
Year 2	Summer	Fall	Winter	Spring
Thursday		Health Politics and Policy (BATS 255)	Introduction to Medical Statistics II (BATS 209B)	Quality Efficiency and Cost Effectiveness (BATS 251)
Thursday		Disparities in Health and Healthcare (BATS 253)	Measurement Science, Outcomes Research & Advanced Applied Methods (BATS 247)	Comparative Effectiveness Research (BATS 245A)
Thursday		BATS (280) Seminar	BATS (280) Seminar	BATS (280) Seminar
		<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
		Independent Directed Research (BATS 299)	Independent Directed Research (BATS 299)	Independent Directed Research (BATS 299)
		MS Thesis Research & Writing (BATS 295)	MS Thesis Research & Writing (BATS 295)	MS Thesis Research & Writing (BATS 295)

Proposed Timeline for 2-year Program Student who completed Certificate Program

***The information below provides a general overview of the timeline to complete the Master of Science degree in Biomedical and Translational Science. Dates may differ slightly for each student.

Registration: Students are personally responsible for ensuring that their course enrollment is correct and completed, and **have their fees paid**, no later than the end of the third week of **each quarter**:
<https://www.reg.uci.edu/enrollment/registration.html>

Year 1

Complete course requirements of Clinical Research Certificate Program

Year 2

Fall Quarter

1. Follow the **2-Year Curriculum/Students who have successfully completed Clinical Research Certificate Program** grid
2. Refer to **Forms and BATS Deadlines for 2-year Student who completed Certificate Program**
3. Conduct research, draft your thesis, form your Thesis Committee
4. It is the **student's responsibility** to meet with thesis committee regularly, set meeting agendas, prepare discussion materials. Ask questions early!

Winter Quarter

Continue working on your thesis.

Spring Quarter

With Director Kaplan's approval, the student confirms with each Committee member that they are ready to advance and plan to defend their thesis on the following quarter. The student is responsible for making sure the **Advancement to Candidacy** form is agreed **and** signed by each Committee member, submitted to and approved by Graduate Division *one quarter* before the student defends and plan on graduating.

IMPORTANT: Graduate Division Filing Deadlines are strict and non-negotiable.

Summer Quarter

1. You must be enrolled as a student in order to earn a degree.
2. You can only defend your thesis when each Committee member agrees you are ready to present your findings.
3. Failure to send the best version of your thesis to your Committee members for review before your actual defense may result in cancelation of your defense presentation.
4. After you defend, you must have Committee approval before submitting a thesis electronically. The library is very particular about the format of the thesis. There will be information sessions that discuss thesis preparation and filing procedures.
5. Last step is paying the Master's Thesis Submission Fee at the Cashier's office and bringing **Final Degree Paperwork** to Graduate Division office.

Final Degree Paperwork:

- Master's Thesis Submission Checklist
- Master's Thesis/Signature Page Report on Final Examination for the Master's Degree
- Confirmation email of thesis submission from Administrator@proquest.com
- Confirmation page of UCI Master's Exit Survey: <https://apps.grad.uci.edu/exitsurvey/>
- Degree Certification Request form

M.S. degree conferred!

Diploma:

You will receive a master's diploma 4 months later. Diplomas are not automatically mailed. Make sure the Registrar has a correct address before you leave. They will use this address to let you know when to pick up your diploma.



**1-Year Curriculum
(Accelerated Path)**
Master of Science Degree
Biomedical and Translational Science

The curriculum to earn the Master of Science degree in Biomedical and Translational Science (MS-BATS) requires one year [three (3) academic quarters plus one (1) summer quarter] of coursework and research training. Students will focus and establish a solid foundation in the fundamental disciplines underlying modern biomedical and clinical research. Students are expected to develop a study design, conduct research, choose a research mentor, write, defend, and submit thesis in one year, applying the principals learned throughout the year.

***A total of 50 units is the minimum requirement in order to earn BATS degree.

MS-BATS – One-Year Curriculum (Accelerated Path)				
Year 1	Summer	Fall	Winter	Spring
Saturday	Ethics in Clinical Research (BATS 296)	Introduction to Medical Statistics (BATS 209A)	Introduction to Clinical Epidemiology (BATS 210A)	Design and Analysis of Clinical Trials (BATS 232)
Thursday		Health Politics and Policy (BATS 255)	Introduction to Medical Statistics II (BATS 209B)	Quality Efficiency and Cost Effectiveness (BATS 251)
Thursday		Disparities in Health and Healthcare (BATS 253)	Measurement Science, Outcomes Research & Advanced Applied Methods (BATS 247)	Comparative Effectiveness Research (BATS 245A)
Thursday		BATS (280) Seminar	BATS (280) Seminar	BATS (280) Seminar
		Independent Directed Research (BATS 299) or MS Thesis Research & Writing (BATS 295)	Independent Directed Research (BATS 299) or MS Thesis Research & Writing (BATS 295)	Independent Directed Research (BATS 299) or MS Thesis Research & Writing (BATS 295)

Proposed Timeline for 1-year (Accelerated) Student

***The information below provides a general overview of the timeline to complete the Master of Science degree in Biomedical and Translational Science. Dates may differ slightly for each student.

Registration: Students are personally responsible for ensuring that their course enrollment is correct and completed, and **have their fees paid**, no later than the end of the third week of **each quarter**: <https://www.reg.uci.edu/enrollment/registration.html>

Fall Quarter

1. Follow the **1-Year Curriculum (Accelerated Path)** grid
2. Refer to **Forms and BATS Deadlines for 1-year (Accelerated) Student**
3. Conduct research, draft your thesis, form your Thesis Committee
4. It is the **student's responsibility** to meet with thesis committee regularly, set meeting agendas, prepare discussion materials. Ask questions early!

Winter Quarter

Continue working on your thesis.

For students who completed "Ethics" course in summer, before becoming a fulltime MS-BATS student: You will **Advance** in Winter Quarter, defend your thesis in Spring Quarter

For students who have completed a whole year of MS-BATS coursework and will enroll in "Ethics" course the following summer: You will **Advance** in Spring Quarter, defend your thesis in Summer

Advance:

With Director Kaplan's approval, the student confirms with each Committee member that they are ready to advance and plan to defend their thesis on the following quarter. The student is responsible for making sure the **Advancement to Candidacy** form is agreed **and** signed by each Committee member, submitted to and approved by Graduate Division one quarter before the student defends and plan on graduating.

IMPORTANT: Graduate Division Filing Deadlines are strict and non-negotiable.

Defending your thesis:

1. You must be enrolled as a student in order to earn a degree.
2. You can only defend your thesis when each Committee member agrees you are ready to present your findings.
3. Failure to send the best version of your thesis to your Committee members for review before your actual defense may result in cancelation of your defense presentation.
4. After you defend, you must have Committee approval before submitting a thesis electronically. The library is very particular about the format of the thesis. There will be information sessions that discuss thesis preparation and filing procedures.
5. Last step is paying the Master's Thesis Submission Fee at the Cashier's office and bringing **Final Degree Paperwork** to Graduate Division office.

Final Degree Paperwork:

- Master's Thesis Submission Checklist
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- Degree Certification Request form

M.S. degree conferred!

Diploma:

You will receive a master's diploma 4 months later. Diplomas are not automatically mailed. Make sure the Registrar has a correct address before you leave. They will use this address to let you know when to pick up your diploma.

Thesis Committee

Selecting a Research Advisor

In this handbook, we have provided **Faculty who served as Thesis Committee Chair** and **Faculty who served as Thesis Committee Member**.

1. Your Thesis Committee should provide guidance on your research project and will ultimately judge whether or not you have satisfied the requirements for a master's degree at your thesis defense.
2. Review the faculty profile: <http://www.faculty.uci.edu/>. Look for research activities that may be aligned with your research interest.
3. Once you identify some faculty that might be of interest to you, contact them via email. If they are not able to work with you, ask them if they know of anyone in the department who would be a good fit for you. Have your CV or resume available, detailing your research, work experience, presentations, publications, poster sessions. This will help the faculty member with determining if your experience would be beneficial to his or her lab.
4. Schedule a discussion meeting with **Dr. Kaplan** to obtain her approval of your research project.
5. Student choose at least **three faculty members** who will comprise of the Thesis Committee.
6. In order to earn BATS degree, at least two members of Thesis Committee must be Academic Senate. **One of the Thesis Committee members must be a BATS faculty.**

Thesis Committee Qualifications:	
Chair must be	the primary mentor
	a School of Medicine faculty
	a member of Academic Senate***
Member must be	affiliated with School of Medicine (desired)
	a member of Academic Senate*** (exceptions can be made with adequate notice and justification)
	Faculty from other UC institutions may serve as Thesis Committee member

Definition: ***Academic Senate	Definition: Non-Academic Senate
Assistant Professor	Health Sciences Clinical Assistant Professor
Associate Professor	Health Sciences Clinical Associate Professor
Professor	Health Sciences Clinical Professor
Assistant Professor in Residence	Adjunct Assistant Professor
Associate Professor in Residence	Adjunct Associate Professor
Professor in Residence	Adjunct Professor
Assistant Professor of Clinical	
Associate Professor of Clinical	
Professor of Clinical	

7. After you have selected your Committee Chair and Members, provide the name to Marissa to confirm if the faculty member is an Academic Senate member. If the faculty member is not an Academic Senate member, we can request exceptions with justification. There is no guarantee of approval.
8. With Director Kaplan's approval of your research project, your Committee Chair and Members will sign **BATS 1-3 forms**.
9. Thesis Committee members may not be changed without written approval of Director Kaplan and Graduate Division.
10. Meet with your Thesis Committee regularly. The goal of these meetings is to provide input and feedback on your thesis progress, and to approve of the proposed changes in the direction of your thesis work. **It is your responsibility to schedule these meetings.**

Faculty who served as Thesis Committee Chair

Thomas Ahlering, MD

Vice Chairman and Professor, Urology
Chief, Division of Oncological Urology

Yama Akbari, MD, PhD

Assistant Professor, Neurology, Internal Medicine

Cristobal Barrios, MD

Health Sciences Associate Clinical Professor, Surgery

Samuel Bederman, MD, PhD, FRCS

Spine Surgeon, Assistant Clinical Professor, Orthopaedic Surgery

John Billimek, PhD

Associate Professor In-Residence, Health Policy Research Institute
Department of Medicine

Daniela Bota, MD, PhD

Associate Professor, Neurology
Medical Director, Neuro-Oncology Program

Matthew Brenner, MD

Professor, Medicine

Robert Bristow, MD

The Philip J. DiSaia Chair, Gynecologic Oncology
Professor, Obstetrics & Gynecology
Director, Division of Gynecologic Oncology

Belinda Campos, PhD

Associate Professor, Chicano/Latino Studies
Program in Medical Education for the Latino Community (PRIME-LC)

Bharath Chakravarthy, MD

Assistant Professor of Clinical EM, Emergency Medicine
Vice Chair of Research and Academic Affairs, Emergency Medicine

Hoda Anton-Culver, PhD

Professor and Chair, Epidemiology
Director, Genetic Epidemiology Research Institute
Professor, School of Social Ecology

Brian Cummings, PhD

Professor, Physical Medicine and Rehabilitation

Hamid Djalilian, M.D.

Professor, Otolaryngology

Gregory Evans, MD
Chair, Plastic Surgery
Professor, Surgery

Christian Fox, MD
Professor and Chair, Emergency Medicine

John Fruehauf, MD, PhD
Professor, Clinical Medicine, Biomedical Engineering, and Biological Chemistry
School of Medicine

Sidney Golub, PhD
Research Professor, Microbiology & Molecular Genetics
Unit Director for Clinical Research Ethics, Institute for Clinical and Translational Science

Sheldon Greenfield, MD
Professor, Medicine
Executive Co-Director, Health Policy Research Institute

Joshua Grill, PhD
Associate Professor, Psychiatry and Human Behavior
Director, MIND
Associate Director, Alzheimer's disease Research Center

Wirachin Hoonpongsimanont, MD, MS
Assistant Professor, Emergency Medicine
Director, EM Clerkship and EMRAP, Department of Emergency Medicine

Susan Huang, MD
Professor, Medicine and Division of Infection Diseases
Director, Epidemiology and Infection Prevention

Sherrie Kaplan, PhD, MPH
Assistant Vice Chancellor, Healthcare Evaluation and Measurement
Executive Co-Director, Health Policy Research Institute
Director, MS-BATS Program
Professor, Medicine and Anesthesiology & Perioperative Care

Antoine Khoury, MD, FRSCSC, FAAP
Chief, Pediatric Urology
Walter R. Schmid Professor, Urology and Pediatric Urology

Jaime Landman, MD
Professor and Chair, Urology

Thay Lee, PhD
Professor in Residence, Orthopaedic Surgery
Vice Chair for Research, Orthopaedic Surgery
Professor in Residence, Biomedical Engineering

Shahram Lotfipour, MD, MPH

Professor, Emergency Medicine and Public Health

Shaista Malik, MD, PhD, MPH

Professor, Cardiology

Associate Vice Chancellor, College of Health Sciences

Executive Director, Susan Samueli Integrative Health Institute

Tahseen Mozaffar, MD

Professor and Chair, Neurology

Dana Mukamel, PhD

Professor, Medicine

Hannah Lui Park, PhD

Associate Professor, Medicine

Program Director, Athena Breast Health Network

Associate Director, Genetic Epidemiology Research Institute

Dara Sorkin, PhD

Associate Professor, Medicine

Krishnansu Tewari, M.D.

Professor and Division Director, Obstetrics & Gynecology

Ping Wang, MD

Professor, Medicine and Biological Chemistry

Director, Center for Diabetes Research and Treatment

Division Chief, Endocrinology, Diabetes and Metabolism Medicine

Brian Wong, MD

Professor and Vice Chairman, Otolaryngology

Professor, Surgery School of Medicine

Jason Zell, DO

Associate Professor, Medicine and Epidemiology

Faculty who served as Thesis Committee Member

Gurpreet Ahuja, MD

Assistant Professor, Otolaryngology
Division Chief of Otolaryngology, CHOC

Yama Akbari, MD, PhD

Assistant Professor, Neurology, Internal Medicine

Gregory Albers, MD, FACG

Clinical Professor of Medicine, School of Medicine
Vice Chair of Education, Medicine

Craig Anderson, PhD, MPH

Research Specialist, Emergency Medicine

Hoda Anton-Culver, PhD

Professor and Chair, Epidemiology
Director, Genetic Epidemiology Research Institute
Professor, School of Social Ecology

Antonio Arrieta

Division Chief, Infectious Disease, CHOC
President, Medical Staff, CHOC

Jeffrey Arroyo, MD

Assistant Health Sciences Clinical Professor, Family Medicine

Nicole Bernal, MD

Assistant Clinical Professor, Surgery

John Billimek, PhD

Associate Professor In-Residence, Health Policy Research Institute and
Department of Medicine

Alexander Boiko, PhD

Assistant Professor, Molecular Biology and Biochemistry

Robert Bristow, MD

The Philip J. DiSaia Chair, Gynecologic Oncology
Professor, Obstetrics & Gynecology
Director, Division of Gynecologic Oncology

Andrew Browne, MD, PhD

Assistant Clinical Professor, Ophthalmology

Taylor Brueseke, MD

Assistant Clinical Professor, Obstetrics & Gynecology

Belinda Campos, PhD
Associate Professor, Chicano/Latino Studies
Program in Medical Education for the Latino Community (PRIME-LC)

Jose Carrillo, MD
Health Sciences Assistant Clinical Professor, Neurology
Assistant Professor, Hematology/Oncology
Director, Neuroscience Clerkship

Bharath Chakravarthy, MD
Assistant Professor of Clinical EM, Emergency Medicine
Vice Chair of Research and Academic Affairs, Emergency Medicine

Sarah Choi, PhD
Assistant Professor, Nursing Science

Judith Chung
Professor, Clinical Obstetrics and Gynecology

Dan Cooper, MD
Professor, Pediatrics
Chief, Pediatric Pulmonology Division

Maria Corrada, MS, ScD
Professor In-Residence, Neurology
Professor, Epidemiology
Professor, Institute for Memory Impairments and Neurological Disorders

Matthew Dolich, MD
Clinical Professor, Surgery
Director, General Surgery Residency Program

Donald Forthal, MD
Professor of Medicine and Molecular Biology and Biochemistry,
Center for Virus Research
Chief, Division of Infectious Diseases

Sumit Garg, MD
Associate Professor, Ophthalmology
Medical Director, Gavin Herbert Eye Institute
Vice Chair, Clinical Ophthalmology

Sheldon Greenfield, MD
Professor, Department of Medicine
Executive Co-Director, Health Policy Research Institute

Harry Haigler, PhD
Professor, Physiology/Biophysics
Associate Dean, Medical Education

Afshan Hameed, MD

Clinical Professor, Obstetrics & Gynecology
Clinical Professor, Cardiology

Jeremy Harris, MD

Assistant Clinical Professor, Radiation Oncology

Donald Hoffman, PhD

Professor, Cognitive Sciences, School of Social Sciences
Professor, Philosophy, School of Humanities

Corey Hugen, MD

Assistant Clinical Professor, Urology

Anthony James, PhD

Donald Bren Professor, Microbiology & Molecular Genetics
Donald Bren Professor, Molecular Biology and Biochemistry

Zeev Kain, MD, MBA

Chancellor's Professor, Anesthesiology and Perioperative Care
Executive Director, Center on Stress and Health

Peter Kaiser, PhD

Professor & Chair, Biological Chemistry

Sherrie Kaplan, PhD, MPH

Assistant Vice Chancellor, Healthcare Evaluation and Measurement
Executive Co-Director, Health Policy Research Institute
Director, MS-BATS Program
Professor, Medicine and Anesthesiology & Perioperative Care

Claudia Kawas, MD

Professor, Neurology
Professor, Neurobiology and Behavior

Kristen Kelly, MD

Clinical Vice Chief and Professor, Dermatology

Richard Kelly, MD, MPH, AB, JD

Clinical Professor, Anesthesiology and Perioperative Care

Chandana Lall, MD

Section Chief of Abdominal Imaging, Radiological Sciences
Professor (Clinical X) Step II & Vice Chair, Radiological Sciences

Jaime Landman, MD

Professor and Chair, Urology

Karen Lane, MD

Health Sciences Associate Clinical Professor, Surgery
Clinical Director, Breast Health Center

Shahram Lotfipour, MD, MPH
Professor, Emergency Medicine

Kenneth Miller, MD, PhD
Consultant, BSL3 Biosafety Training Program
Medical Director, OC Fire Authority

Steven Mills, MD
Chief, Colon & Rectal Division
Clinical Professor, Surgery
Program Director, Colorectal Surgery Residency

Anna Morenkova, MD
Health Sciences Assistant Clinical Professor, Neurology

Dana Mukamel, PhD
Professor, Department of Medicine

Ronald Navarro, MD
Physician, Kaiser Permanente South Bay Medical Center Orthopedics Department
Regional Chief of Orthopaedic Surgery, Kaiser Permanente South Bay Medical Center

Danh Nguyen, PhD
Professor, Department of Medicine
Director, Biostatistics, Epidemiology and Research Design Unit

Diane Nugent, MD
Professor and Chief of Hematology Division, UCI Department of Pediatrics
Medical Director, Hematology and Blood and Donor Services, CHOC Children's

Andrew Odegaard, PhD
Assistant Professor, Epidemiology

Megan Osborn, MD, MPHE
Associate Professor, Clinical Emergency Medicine
Co-Director, Multimedia Design and Educational Technologies Fellowship
Vice Chair of Education

Shlomit Radom-Aizik, PhD
Assistant Professor, Department of Pediatrics
Founder and Executive Director, Pediatric Exercise and Genomics Research Center

Leslie Randall, MD
Associate Professor, Obstetrics & Gynecology
Director, Medical Education in Gynecologic Oncology
Director, Fellowship in Gynecologic Oncology

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Associate Professor, Psychiatry & Human Behavior
Assistant Dean, School of Medicine

Dara Sorkin, PhD

Associate Professor, Medicine

Michael Stamos, MD

Dean, School of Medicine
Professor and Chair, Surgery

Hal Stern, PhD

Founding Chair and Professor, Statistics
Vice Provost for Academic Planning

Min-Ying (Lydia) Su, PhD

Professor, Radiological Sciences and Physics
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Director, Urologic Oncology
Director, Clinical Trial Research

Isaac Yang, MD

Associate Professor of Surgery, Neurosurgery, UCLA School of Medicine

Nathan Wong, PhD, MPH

Professor, Medicine and Epidemiology
Director, Preventive Cardiology

Argyrios Ziogas, PhD

Adjunct Professor, Epidemiology

Guideline on Thesis Structure

Thesis Structure

Note: Director Kaplan will provide an in depth lecture on the Contents of Master's Thesis and Page Specifications

Chapter 1 – Introduction (3-5 pages)

- Background
- Identify the problem
- Ask no more than three research questions
- What are you going to do to move science along?
- What is your directional hypothesis?
- Where are you headed?

Chapter 2 – Background (6-8 pages)

- Thorough literature review
- What do we know about the problem?
- Be sure to read primary sources (do not cite secondary sources without reading primary sources)

Chapter 3 – Methods (8-10 pages)

- What are you going to do?
- Describe your study and sample
- Research design
- Key study measures
- Data collection strategies/measures (data abstract, patient questionnaire...)
- Statistical methods/analytic plan

Chapter 4 – Results (10+ pages)

- What you found
- Tables, figures, charts, graphs, pictorial data presentations
- No interpretations
- Tie back to research questions

Chapter 5 – Discussion (8+ pages)

- “So what?”
- What do we know now that we didn't know before?
- Why is this important?
- How have you advanced science?
- Where does this leave us and where do we go next?
- Next steps

Contents of Master's Thesis – Opening Pages

Title Page

- Author's name as it appears on official University records
- List the degree earned
- The full name of each committee member

Words used in the manuscript title are the access points for researchers who may use keyword-searching techniques to identify works in various subject areas. Use word substitutes, not symbols or formulas, to ensure effective retrieval from on-line indexes. Use concise titles containing words descriptive of the work; emphasis should be on nouns, with easily identifiable key words.

Copyright Page

- If you have previously published parts of your manuscript, you must list the copyright holders.
- If a copyright statement is not being included, insert a blank sheet of 100% cotton paper as a substitute. The University Archives strongly recommends that you include a copyright statement.

Dedication Page (Optional) Table of Contents

- All sections of the manuscript are listed in the table of contents except the title page, the copyright page, the dedication page, and the table of contents. The sections to be included in the table of contents are: lists of symbols, figures, tables, and illustrations, acknowledgments, curriculum vitae, abstract, introduction, each chapter, bibliography, and each appendix.
- Novels and collections of poems are not exempt from the requirement to include a table of contents.

Acknowledgments Page

- You must acknowledge grants and other funding assistance.
- If you have used copyrighted material of your own or others, you must include a statement to inform the reader that permission has been granted and state the source of the permission.
- You may also acknowledge the contributions of professors and friends.

References Section Bibliography

- Format the references or bibliography in the style most commonly used in your academic discipline (including the placement of references at the end of each chapter if necessary).
- Appendices
 - List each appendix separately in the table of contents.
 - Tables, figures, charts, or photos are placed at the end of the manuscript form an appendix and should not be listed in a list of figures, list of tables, or list of illustrations in your preliminary pages.

Resources

UCI Biomedical and Translational Science Research Training Program Resources

Employment

- <http://career.uci.edu/>
- [https://staffing2.hr.uci.edu/CSS External/CSSPage Welcome.asp](https://staffing2.hr.uci.edu/CSS_External/CSSPage_Welcome.asp)

Faculty Profile System

- <http://www.faculty.uci.edu/>

Financial Aid

- <http://www.ofas.uci.edu/content/>

Graduate Division

- Website - <http://www.grad.uci.edu/>
- Policies and Procedures - <https://grad.uci.edu/forms/academics/Graduate-Policies-and-Procedures.pdf>

International Center

- <http://www.ic.uci.edu/>

Parking

- <http://www.parking.uci.edu/>

Registrar

- <http://www.reg.uci.edu/>

Important Contacts:

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Forms

BATS 1-3

BATS 299

Graduate Division forms: <https://www.grad.uci.edu/forms/index.php>

Form 1
MS-BATS Individual Research Plan
(To be submitted two quarters before degree completion)

Student Name: _____

Date: _____

Area of research interest:

Description of proposed study design:

Proposed Timeline:

Develop study design/Conduct Research _____ (Quarter/Year)

Write Thesis _____ (Quarter/Year)

Defend/Submit Thesis _____ (Quarter/Year)

(Committee Chair Signature)

(Date)

Form 2
MS-BATS
Thesis Committee Confirmation Form

Student Name _____

Date _____

BATS Thesis Committee Members:

Thesis Committee - Chair (Name, title, department)

(Signature)

Thesis Committee – 1st Member (Name, title, department)

(Signature)

Thesis Committee - 2nd Member (Name, title, department)

(Signature)

(BATS Student name)

(Signature)

(Date)

Form 3
MS- BATS
Research Proposal Form

Student Name _____

Date _____

Synopsis of Proposal (Include brief background, hypothesis, research methodology, and proposed time frame):

Approved by:

(Thesis Chair Name)	(Signature)	(Date)

(Thesis Committee- 1 st Member Name)	(Signature)	(Date)

(Thesis Committee-2 nd Member Name)	(Signature)	(Date)