

SUMMER MEDICAL DENTAL EDUCATION PROGRAM

CURRICULUM

SMDEP is a national program funded by the Robert Wood Johnson Foundation with direction and technical assistance provided by the Association of American Medical Colleges and the American Dental Education Association.

The SMDEP is a free (full tuition, housing, and meals) six-week summer medical and dental school preparatory program that offers eligible students intensive and personalized medical and dental school preparation.

Academic Programs

Career Development

Other Skills

Example of Schedule

Academic Programs

Enrichment courses in organic chemistry, physics, anatomy and physiology, microbiology, and statistics; lab experience in the human anatomy facility at the medical school will be offered through the six-week experience.

Organic Chemistry

Organic chemistry is a specific discipline within chemistry which involves the scientific study of the structure, properties, composition, reactions, and preparation (by synthesis or by other means) of chemical compounds consisting primarily of carbon and hydrogen. Class time will be a mix of lecture and group work to aid in the understanding of key concepts. Homework assignments will reinforce and develop the ideas discussed in class.



Physics

This six-week course will provide students with an introduction to some of the key concepts in physics, such as motion, force, heat, fluids, and waves. An emphasis will be placed on how the physical principles apply to the mechanics of the human body. Class time will consist of a

combination of lecture, demonstrations, and hands-on group work. Homework assignments will reinforce and develop the ideas discussed in class.

Microbiology

This course will serve as a general introduction to pathologies caused by microorganisms from the perspective of etiologic agents, symptoms, prevention, and treatment. Interactive lectures will provide theoretical background for diagnosis of real-world case studies in general medicine and dentistry.

Anatomy and Physiology

The lecture portion of A &P emphasizes problem solving with clinical situations that involve anatomical terminology, homeostatic mechanisms and pathologies associated with the skeletal, muscular and nervous systems. The lab portion includes hands-on gross anatomy lab experiences with bones, joints, muscles, brains and other internal organs.

Statistics

Statistics is the study of research outcomes. Over the six weeks, you will be introduced to the concepts that are used in reporting the results of research. Even if you will not be producing research in your practice, you will likely be reading the results of others' research. An understanding of statistics is essential if you want to read the reports in academic journals. Class time will be a mix of lecture and group work. Homework assignments will reinforce and develop critical thinking based on the ideas learned in class.

- Calculator Requirement for Statistics Course
- Accepted scholars are **required** to bring a statistics-friendly calculator for the Statistics course: Texas Instruments 83+ or 84. Specs/features and user guide may be accessed by clicking on the following links:
- [TI-83 Plus](#)
- [TI-84 Plus Silver Edition](#)
- [Guide for TI-83, TI-83 Plus, or TI-84 Plus Graphing Calculator](#)

Health Policy

Health Policy is the study to improve health systems to meet their objectives in terms of health outcomes, financial protection and responsiveness to the population's legitimate expectations. This six-week educational experience will focus on key principles in policy making and health policy and exposure to critical health care issues. Scholars will be enlightened about the role of health professionals in the health policy arena with the goal of enhancing the scholars' analytical skills and empower them about the opportunities to become catalysts for change outside of the clinical, research, and academic environments. Class time will be a mix of lecture and group work with demonstrations of the utility of select concepts. Homework assignments will reinforce and develop the ideas discussed in class.

Career Development

Career development opportunities will include the exploration of the medical and dental professions.

Alumni and faculty speakers will discuss career opportunities and will review admissions processes, including characteristics of successful applicants. Students will practice writing an admissions essay and will receive individualized feedback from SMDEP faculty and/or tutors.

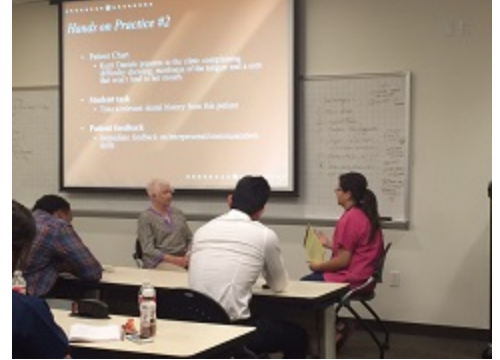
Strategies to become successful applicants to dental/medical school admissions will be presented during several sessions over the six-week program.

Other Skills

Individualized career planning, financial management, and personal statements preparation; in addition, individualized training and interviewing techniques for admissions interviewing.

- ***Professionalism and Cultural Competency***

Scholars will experience special topics in humanism, professionalism, ethics and cultural competency. These topics will be introduced by highly regarded faculty with known expertise in these areas. Cases will reinforce the presentations. Scholar demonstration of the characteristics of humanism, professionalism, ethical behavior and cultural competency are interwoven into many aspects of the six-week experience culminating in group presentations on topics related to important issues in health care. Scholars will also participate in a multicultural day and luncheon in which a nationally known expert will spend the day focusing upon aspects of cultural competency.



- ***Communication Skills***

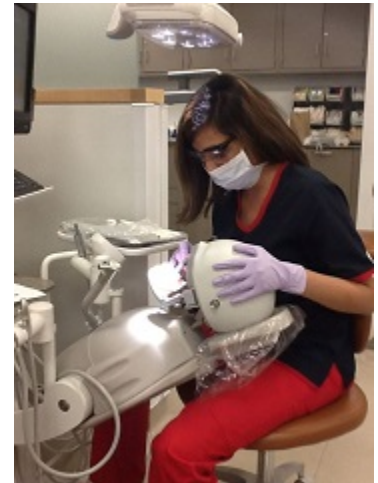
Small-group, problem-based learning exercises related to the core curriculum will help develop group work and communication skills. Student groups will develop presentations on a current topic in health care and receive feedback. Scholars will prepare for dental and medical school interviews by working on mock interviews with the tutors.

- ***Clinical Exposure***

Scholars will experience limited clinical exposure through a diverse range of settings including shadowing individual clinicians, small-group clinical rotations in both the dental and medical settings and full-group seminars with highly experienced and expert clinicians.

- ***Learning Skills Development***

Emphasis is placed on developing learning strategies to be a successful student in professional school. After a personal learning-style assessment, the course will focus on reading, implementing strategies to improve study habits, and note-taking strategies. Test-taking skills, time management, and use of information resources (library and Web) will also be covered.



- ***A Financial Planning Experience***

A nationally recognized expert in financial planning will work with the scholars to assist them in developing individualized career plans and implement financial management strategies. The SMDEP Directors will also continue the work on financial planning throughout the six-week program.

May 27 to May 30, 2014

Monday 26	Tuesday 27	Wednesday 28	Thursday 29	Friday 30
MEMORIAL DAY	SCHOLARS ARRIVE	<p>8:00a–12:00p (MSB 1.006) Welcome Breakfast</p> <p>Orientation Activities</p> <p>8:00a–9:00a WELCOME--SMDEP Team Dr. Karen Novak Dr. Phil Pierpont Dr. Andrew Harper Ms. Janis Smith</p> <p>9:15a–10:00a Ms. Diane White Memorial Hermann Hospital Meal Tickets</p> <p>10:00a–12:00p Student Computer ID Verification-- Tour with Tutors Med School LRC & Library, TMC Library</p>	<p>8:00a–12:00p (SOD 4310)</p> <p>Pre-Assessment Testing and Issue Homework Assignment</p> <p>Ms. Martha Robertson Assistant Director Center for Excellence in Teaching & Learning San Jacinto College</p> <p>(Bring your Henrietta Lacks book to read during downtime)</p>	<p>8:00a–10:00a (MSB 1.006) Chemistry Mr. Christopher Wild</p> <p>10:00a–12:00p (MSB 1.006) Anatomy & Physiology Professor Susan Lustick</p>
		<p>12:00p–1:00p (MSB1.006) Catered Lunch</p>	<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p Lunch (on your own)</p>
	<p>2:00p–5:00p</p> <p>WIESS COMMONS Rice University Dorm Check-in</p> <p>Student Backpack and ID Badge Distribution</p> <p>Check-out Books</p> <p>5:00p–6:00p</p> <p>Welcome Reception Pizza Dinner</p>	<p>1:00p–1:15p (MSB 1.006) Dean's Welcome Dr. John A. Valenza Dean, UT School of Dentistry</p> <p>1:15p–2:00p (MSB 1.006) Professionalism Dr. Andrew Harper</p> <p>2:00p–2:30p (MSB 1.006) Code of Conduct and Student Responsibilities/ Sign Forms Drs. Pierpont & Harper</p> <p>2:30p–3:30p (MSB 1.006) Financial Management Booklets & Overview of <i>The Immortal Life of Henrietta Lacks</i> (book for group discussions) Dr. Karen Novak</p> <p>4:00p–6:00p Medical School LRC LASSI</p> <p>(MUST be completed by 5PM on May 30th)</p>	<p>1:00p–2:00p (SOD 4310) Q & A Session with Tutors</p> <p>2:00p–3:00p(SOD 4310) Introduction to Clinical Observations Dr. Phil Pierpont Dr. Andrew Harper</p> <p>Introduction to Writing Personal Statements Dr. Andrew Harper</p> <p>3:00p–5:00p (SOD 4310) LASSI, Reading Time for "Henrietta Lacks" book, OR Work with Tutors</p>	<p>1:00p–2:00p (MSB 1.006) Invited Medical School Speaker Latanya Love, M.D. "Infection control in healthcare workers"</p> <p>2:00p–3:00p (MSB 1.006) Introduction to Interviewing Techniques Dr. Karen Novak Scholars work with Tutors</p> <p>3:00p–5:00p (MSB 1.006) LASSI, Reading Time for "Henrietta Lacks" book, OR Work with Tutors</p>

June 2 to June 6, 2014

M onday 2	T uesday 3	W ednesday 4	T hursday 5	F riday 6
<p>8:00a–10:00a (MSB 1.006) Anatomy & Physiology Professor Susan Lustick</p> <p>10:00a–12:00p (MSB 1.006) Microbiology Professor Frank Richardson</p>	<p>8:00a–10:00a (SOD 4330) Chemistry Professor Christopher Wild</p> <p>10:00a–12:00p (SOD 4330) Statistics Ms. Martha Robertson Substituting for Dr. J. P. Anderson</p>	<p>8:00a–10:00a (MSB 1.006) Chemistry Professor Christopher Wild</p> <p>10:00a–12:00p (MSB 1.006) Microbiology Professor Frank Richardson</p>	<p>9:00a–12:00p Museum of Fine Arts (MFAH) 1001 Bissonnet Houston, TX 77005 <i>The Art of Communication</i> Course</p> <p>Group 1 (MFAH) <i>Art of Observation</i> Be at the MFAH at 10:00am Dr. John Foringer</p> <p>Group 2 (MSB B.610) <i>Art of Listening</i> Ms. Marcy Hamburger</p> <p>Group 3 (MSB B.612) <i>Art of Perception</i> Dr. Karen Novak</p>	<p>8:00a–10:00a (MSB 1.006) Chemistry Professor Christopher Wild</p> <p>10:00a–12:00p (MSB 1.006) Anatomy & Physiology Professor Susan Lustick</p>
<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p (SOD 4330) Town Hall Meeting Catered Lunch IPC Panel Discussion</p>	<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p Lunch (on your own)</p>
<p>1:00p–2:00p (MSB 1.006) LASSI and Pre-test Results Dr. Karen Novak</p> <p>2:00p–4:00p (MSB 1.006) Study Skills Ms. Kathleen Straker</p> <p>4:00p–5:00p (MSB 1.006) Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>	<p>1:00p–2:30p (SOD 4310) Wellness Session Ms. Sharlene Johnson Ms. Amanda Hembree UT Counseling and WorkLife Services “<i>Stress Management – The Joy of Humor</i>”</p> <p>3:00p–5:00p (SOD 4310) Physics Professor Walter Thompson</p>	<p>1:00p–3:00p (MSB 1.006) Study Skills Ms. Kathleen Straker</p> <p>3:00p–4:00p (MSB 1.006) Health Policy Seminar Session I “An Introduction to the Policy Making Process and Health Policy” Dr. Andrew Harper</p> <p>4:00p–5:00p (MSB 1.006) Introduction to Project Overview Orientation Dr. Andrew Harper</p>	<p>1:00p–2:00p (MSB 1.006) “Navigating the Path to Admissions” Dr. Phil Pierpont Dr. Latanya Love</p> <p>2:00p–3:00p (MSB 1.006) Criminal Background Checks Dr. Phil Pierpont Dr. Andrew Harper</p> <p>3:00p–5:00p (MSB 1.006) Physics Professor Walter Thompson</p>	<p>1:00p–2:00p (MSB 1.006) Health Policy Seminar Session II “An Overview of Healthcare Financing” Dr. Andrew Harper</p> <p>2:00p–3:30p (MS Basement PBL) Henrietta Lacks Book Discussion <i>Part One - Life</i></p> <p>3:30p–5:00p (MSB 1.006) Project Preparation, Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>

06-30-14

2014 Summer Medical and Dental Education Program

June 9 to June 13, 2014

Monday 9	Tuesday 10	Wednesday 11	Thursday 12	Friday 13
<p>8:00a–10:00a (MSB 1.006) Anatomy & Physiology Professor Susan Lustick</p> <p>10:00a–12:00p (MSB 1.006) Statistics Dr. J. P. Anderson</p>	<p>8:00a–10:00a (SOD 4330) Chemistry Mr. Christopher Wild</p> <p>10:00a–12:00p (SOD 4330) Microbiology Professor Frank Richardson</p>	<p>8:00a–9:30a (SOD 4310) Anatomy & Physiology Professor Susan Lustick (Lecture only)</p> <p>9:30a–11:00a (SOD 4310) Statistics Dr. J. P. Anderson</p> <p>11:00a–11:45a (SOD 4310) Town Hall Meeting with NPO</p> <p>8:00a – 1:00p NPO Site Visit SOD 5210</p>	<p>9:00a–12:00p Museum of Fine Arts (MFAH) 1001 Bissonnet Houston, TX 77005 <i>The Art of Communication</i> Course</p> <p>Group 2 (MFAH) <i>Art of Observation</i> Be at the MFAH at 10:00am Dr. John Foringer</p> <p>Group 3 (MSB B.610) <i>Art of Listening</i> Ms. Marcy Hamburger</p> <p>Group 1 (MSB B.612) <i>Art of Perception</i> Dr. Karen Novak</p>	<p>8:00p–9:00a (SOD 4330) Professor Victoria Patrounova Clinical Asst. Professor Periodontics - SOD “Dental Caries Prevention: Pit and Fissure Sealants and Fluoride Varnish”</p> <p>9:00a–10:00a Dental Simulation Lab Professor Harold Henson</p> <p>10:30a–11:30a (SOD 4330) Dr. Ariadne Letra “No Adult Teeth Behind Baby Teeth”</p>
<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p (SOD 4330) Town Hall Meeting Catered Lunch</p>	<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p Lunch (on your own)</p>	<p>12:00p–1:00p Lunch (on your own)</p>
<p>1:00p–5:00p Clinical Observations</p> <p style="text-align: center;">Or:</p> <p>Project Preparation, Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>	<p>1:00p–2:30p (SOD 4310) Wellness Session Ms. Sharlene Johnson Ms. Amanda Hembree UT Counseling and WorkLife Services “<i>Better Health Through Nutrition and Physical Activity</i>”</p> <p>3:00p–5:00p (SOD 4310) Physics Professor Walter Thompson</p>	<p>1:00p–5:00p Clinical Observations</p> <p style="text-align: center;">Or:</p> <p>Project Preparation, Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>	<p>1:00p–3:00p (MSB 1.006) Microbiology Professor Frank Richardson</p> <p>3:00p–5:00p (MSB 1.006) Physics Professor Walter Thompson</p>	<p>1:00p–3:00p (SOD 4330) Statistics Dr. J. P. Anderson</p> <p>3:00p–4:00p (SOD 4330) Project Preparation, Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>

Saturday, June 14, 2014, 9:00 AM – 2:00 PM

PRACTICE MCAT (MS – ROOM MSB B.100) and DAT (MS – Room MSB B.645) – BE THERE AT 9:00 AM.

June 16 to June 20, 2014

Monday 16	Tuesday 17	Wednesday 18	Thursday 19	Friday 20
<p>8:00a-10:00a (MSB 1.006) Physics Professor Walter Thompson</p> <p>10:00a-12:00p (MSB 1.006) Microbiology Professor Frank Richardson</p>	<p>8:00a-12:00p Clinical Observations Dr. Phil Pierpont Dr. Andrew Harper</p>	<p>9:00a-12:00p Cooley University Life Center (ULC) School of Dentistry</p> <p>Dr. Will Deal SMDEP Financial Planning and Literacy Workshop</p> <p>Dr. Leon Johnson President and CEO Education Association Services Group, LLC</p>	<p>9:00a-12:00p Museum of Fine Arts (MFAH) 1001 Bissonnet Houston, TX 77005 <i>The Art of Communication Course</i></p> <p>Group 3 (MFAH) <i>Art of Observation</i> Be at the MFAH at 10:00am Dr. John Foringer</p> <p>Group 1 (MSB B.610) <i>Art of Listening</i> Ms. Marcy Hamburger</p> <p>Group 2 (MSB B.610) <i>Art of Perception</i> Dr. Karen Novak</p>	<p>8:00a-10:00a (MSB 2.006) Anatomy & Physiology Professor Susan Lustick</p> <p>10:00a-12:00p (MSB 2.006) Anatomy & Physiology Professor Susan Lustick</p>
<p>12:00p-1:00p Lunch (on your own)</p>	<p>12:00p-1:00p (SOD 4330) Lunch (on your own)</p>	<p>12:00p-1:00p (ULC) Town Hall Meeting Catered Lunch</p>	<p>12:00p-1:00p Lunch (on your own)</p>	<p>12:00p-1:00p Lunch (on your own)</p>
<p>1:00p-3:00p (MSB 1.006) Statistics Dr. J. P. Anderson</p> <p>3:00p-4:00p (MSB 1.006) Financing Your Professional School Dream Dr. Phil Pierpont</p> <p>4:00p-5:00p (MSB 1.006) Health Policy Seminar Session III "Health Care Policy Analysis" Dr. Andrew Harper</p>	<p>1:00p-2:30p (SOD 4310) Wellness Session</p> <p>Ms. Sharlene Johnson Ms. Amanda Hembree UT Counseling and WorkLife Services "Know Me, Know You"</p> <p>3:00p-5:00p (SOD 4310) Microbiology Professor Frank Richardson</p>	<p>1:00p-5:00p Cooley University Life Center (ULC) School of Dentistry</p> <p>Dr. Will Deal Financial Planning and Literacy Workshop (continued)</p> <p>Dr. Leon Johnson</p>	<p>1:00p-3:00p (MSB 3.001) Microbiology Professor Frank Richardson</p> <p>3:00p-4:00p (MSB 3.001) Dr. Cameron Jeter "More by Multitasking: An Alluring Myth"</p>	<p>1:00p-3:00p (MSB 2.006) Statistics Dr. J. P. Anderson</p> <p>3:30p-5:00p (MS Basement PBL) Henrietta Lacks Book Discussion <i>Part Two - Death</i></p>

June 23 to June 27, 2014

06-30-14

Faculty Retreat
June 26 & 27

Monday 23	Tuesday 24	Wednesday 25	Thursday 26	Friday 27
<p>8:00a-10:00a (MSB 1.006) Anatomy & Physiology Professor Susan Lustick</p> <p>10:00a-12:00p (MSB 1.006) Physics Professor Walter Thompson</p>	<p>8:00a-12:00p University Life Center (ULC) School of Dentistry</p> <p>Cultural Competency Seminar</p> <p>Tawara Goode Director, National Center for Cultural Competence & Associate Director, Georgetown University Center for Child & Human Development</p> <p>Georgetown University Medical Center Washington, D.C.</p>	<p>8:00a Group Photo Be outside Medical School – front steps facing Fannin</p> <p>8:00a-10:00a (MSB 2.006) Chemistry Mr. Christopher Wild</p> <p>10:00a-12:00p Gross Anatomy Lab A&P Lab Practical Professor Susan Lustick</p>	<p>8:00a-12:00p Medical School Simulation Dr. Andrew Harper</p> <p>8:00a-9:00a Tutors only</p> <p>9:00a-10:00a Group 1</p> <p>10:00a-11:00a Group 2</p> <p>11:00a-12:00p Group 3</p>	<p>8:00a-10:00a (MSB 2.006) Chemistry Mr. Christopher Wild</p> <p>Microbiology Professor Frank Richardson (online class)</p> <p>10:00a-11:00a (MSB 2.006) Dr. Pedro Mancias "From a Field of Cotton to a Field of Neurology"</p>
<p>12:00p-1:00p (MSB 1.006) Lunch (on your own) Lt. Col. Rechell Rodriguez Internal Medicine Physician US Air Force "Federal Sources of Funding for Medical School" Representing the Uniformed Services University of the Health Sciences (USUHS)</p>	<p>12:00p-1:00p (ULC) Town Hall Meeting Catered Lunch</p>	<p>12:00p-1:00p Lunch (on your own)</p>	<p>12:00p-1:00p Lunch (on your own)</p>	<p>12:00p-1:00p Lunch (on your own)</p>

June 23 to June 27, 2014

06-30-14

<p>1:00p-3:00p (MSB 1.006) Study Skills Ms. Kathleen Straker</p> <p>3:00p-4:00p (MSB 1.006) Health Policy Seminar Session IV “Beyond Biology: Determinates of Health and the Role of Health Policy” Dr. Andrew Harper</p> <p>4:00p-5:00p (MSB 1.006) Project Preparation, Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>	<p>1:00p-2:30p (SOD 4310) Wellness Session</p> <p>Ms. Sharlene Johnson Ms. Amanda Hembree UT Counseling and WorkLife Services “<i>Tools for Personal Success</i>”</p> <p>3:00p-5:00p (SOD 4310) Physics Professor Walter Thompson</p>	<p>1:00p-5:00p Clinical Observations</p> <p>Or:</p> <p>Web LASSI, Project Preparation, Reading Time for “Henrietta Lacks” book, OR Work with Tutors</p>	<p>1:00p-3:00p (MSB 1.006) Statistics Dr. J. P. Anderson</p> <p>3:00p-5:00p (MSB 1.006) Physics Professor Walter Thompson</p> <p>7:00p (MSB 5.001) MS 5th Floor Gallery Scholar Talent Show</p>	<p>1:00p-3:00p (MSB 2.006) Ms. Cecilia Velastegui Office of Civil Rights</p> <p>LASSI POST TEST NPO EVALUATION</p>
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June 23 to June 27, 2014

06-30-14

Monday 30	Tuesday 1	Wednesday 2	Thursday 3	Friday 4
<p>8:00a-10:00a (MSB 1.006) Chemistry Professor Christopher Wild</p> <p>10:00a-12:00p (MSB 1.006) Statistics Dr. J. P. Anderson</p>	<p>9:00a-12:00p (SOD 4310) Ms. Martha Robertson Assistant Director, Center for Excellence in Teaching & Learning San Jacinto College</p> <p>POST TEST</p>	<p>8:00a-12:00p University Life Center (ULC) School of Dentistry</p> <p>Project Presentations</p>	<p>8:00a-9:00a BREAKFAST Rice University WIESS COMMONS</p> <p>9:00a-10:00a Check-in Dorm Keys & ID Badges</p> <p>"Farewells and Boo Hoos" WIESS COMMONS</p> <p>10:00a-10:30a SHUTTLES DEPART TO HOBBY AND BUSH-IAH AIRPORTS</p>	<p>4th of July</p>
<p>12:00p-1:00p Lunch (on your own)</p>	<p>12:00p-1:00p Lunch (on your own)</p>	<p>12:00p-1:00p (ULC) Catered Lunch</p>		

June 23 to June 27, 2014

06-30-14

<p>1:00p-2:30p (MSB 5.001) MS 5th Floor Gallery Wellness Session</p> <p>Ms. Delphi Medina Employee Assistance Program "Overview of Gateway Drugs"</p> <p>3:00p-4:30p (MS Basement PBL) Henrietta Lacks Book Discussion <i>Part Three - Immortality</i></p>	<p>1:00p-3:30p (SOD 4310)</p> <p>POST TEST</p> <p>3:30p-4:30p (SOD 4310)</p> <p>SMDEP End of Program Evaluations</p> <p>CHECK-IN BOOKS AT END OF PROGRAM EVALUATIONS</p>	<p>1:00p-3:30p University Life Center (ULC) School of Dentistry</p> <p>Project Presentations (continued)</p> <p>4:00p-5:00p University Life Center (ULC) School of Dentistry Graduation Ceremony</p> <p>5:00p-6:00p (ULC) Graduation Reception</p>		
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