

Curriculum Outline for Summer Course

June 28- August 14

Summer Biomed HCOP Course at STCC

OVERALL OBJECTIVES: Students will engage in exciting curriculum, hands-on activities and campus and job shadows that will get them excited about health and biomedical careers. At the end, students will present a portfolio of written/oral work that reflects their work and experiences.

- BIOMED: Complete a full lab report, take data, complete sketches, conduct a lab independently; use microscope, identify types of blood, identify types of diseases.
- MATH: Improve personal finance skills, graphing skills, statistical analysis (careers), word problems, averages, exponential growth.
- ENGLISH: Complete 1st person student newsletter, improve reading comprehension and analytical writing skills, interviewing skills, note taking (reporting) skills, questioning skills, writing workshop (editorial, 'PR' article, news article).
- CAREER: Complete a resume and final mock interview, cover letter, be able to identify career interests survey and goals, interviewing career experts, body language/presentation skills.

SCHEDULE

Monday-Wednesday: Classes

Thursday: Job Shadow/Campus Visits

1 hour blocks:

1st: Biomedical

2nd: Math

3rd: Journalism

4th: Career

2 Groups, rotating between Session 2 and 3

8:30-9:25 Session 1

9:30-10:25 Session 2

10:25-10:35 break

10:35-11:30 Session 3

11:35-12:30 Session 4

*Monday Morning Welcome 8:30-8:45

*Wednesday Afternoon Send-Off 12:15-12:30

ORIENTATION: June 29th 9-10:30 AM: Includes a Financial Counseling Session, Introduction of teachers and objectives for the summer program, Breif Review of “Work/Job” Expectations, Review Logistics (pick-ups, excuse notes, field trips, etc.), contact info.

WEEK-BY-WEEK OBJECTIVES/ACTIVITIES

WEEK ONE	MONDAY July 6	TUESDAY July 7	WEDNESDAY July 8	THURSDAY July 9
BIOMED	Pre-assessment (HCOP Career Survey, Biomed/Writing Pre-assessment) Group dynamic/team building Contract Rules/Expectations Individual Self-Reflection (collage, coat of arms...) End of day 1: 2 groups Lab Orientation	Microscopy Intro by STCC Staff Person	Human Body Basics	<i>Job Shadows:</i> -TJ O’Connor Animal Hospital -Mercy Medical Center Internal Medicine Clinic -Mercy Medical Center Histology Tissue Labs -Parkview Specialty Hospital for physical therapy
MATH		Pre-Assessment/Review	Personal Finances Spreadsheet/Checkbook	
JOURNALISM		Intro to Interviewing: Making Observations, Taking Notes, Asking Questions	Intro to PhotoJournalism: Telling a Story, Angles, Subjects Photo Assignment #1	
CAREER		Pre-Interview Assessment Review results of Career Survey	Goal Setting/Dreams Expectations for Job Shadow	

WEEK TWO	MONDAY July 13	TUESDAY July 14	WEDNESDAY July 15	THURSDAY July 16
BIOMED	1. Intro to Blood 2. Components 3. Microscopy 101	Mystery of the Crooked Cell (practice with pipettes, load samples)	Mystery of the Crooked Cell (BioTeach)	<i>College Visit:</i> UMASS School of Public Health/Kinesiology Labs
MATH	1. Measuring cells 2. Ratios	Statistics – Sickle Cell	Take data, make conclusions	
JOURNALISM	News Room: Report back on first campus/job visit Lesson: Writing Ledes, Graphic Organizers Writing Lab: Article One	Using Graphic Organizers Interview Practice Review Article One	Writing Headlines Interview Practice Photo Assignment #2	
CAREER	Career Development Intro to Health/Biomed Careers	Career Interests	Character Development	

WEEK THREE	MONDAY July 20	TUESDAY July 21	WEDNESDAY July 22	THURSDAY July 23
BIOMED	1. Candy disease spread intro 2. Carousel walk: Infectious disease intro 3. PPT intro	1. What are bacteria? 2. Microscopy/ Sketching	1. Antibiotics Intro 2. Pre-lab 3. Natural Antibiotic Lab	<i>Job Shadows:</i> -TJ O'Connor Animal Hospital -Mercy Medical Center Internal Medicine Clinic -Mercy Medical Center Histology Tissue Labs -Parkview Specialty Hospital for physical therapy
MATH	Spotlight disease:stats, maps, data	Bacterial reproduction	Allow time for lab to run over	
JOURNALISM	News Room: Report back on 2 nd campus/job visit Lesson: News Bias Writing Lab: Article Two	Review Article Two Lesson: Peer Editing, Reading Out Loud	Interview Practice Finding News Bias in media (clips?) Photo Assignment #3	
CAREER	Professionalism in the Workplace	Workplace Communication	Interview Practice	

WEEK FOUR	MONDAY July 27	TUESDAY July 28	WEDNESDAY July 29	THURSDAY July 30	FRIDAY July 31
BIOMED	1. Check cultures 2. Collect data 3. Lab Report 4. Bacteria Wrap-up	1. What is a virus? 2. Viruses and bacteria 3. Anatomy/Sketch	1. Build virus model 2. Name/Functions 3. Presentations	<i>College Visit:</i> AIC/ Springfield College/ STCC?	<i>Field Trip:</i> Boston Science Musuem
MATH	Percentages	Exponential growth	Budgeting for the real world		
JOURNALISM	NewsRoom: Report back on Visit 3 Writing Lab: Article 3	Copy Editing, Press Ethics	Interview Practice, Press Ethics Photo Assignment #4		
CAREER	Interviewing Skills	Resume Building	Workplace Communication		

WEEK FIVE	MONDAY August 3	TUESDAY August 4	WEDNESDAY August 5	THURSDAY August 6
BIOMED	What is a vaccine and who should get them?	Flu KWL Case Study: The flu Read Play parts 1-4 Discussion (blech..change this when you're feeling creative)	Medical interventions brainstorm in teams What does it mean What does it consist of	<i>Job Shadows:</i> -TJ O'Connor Animal Hospital -Mercy Medical Center Internal Medicine Clinic -Mercy Medical Center Histology Tissue Labs -Parkview Specialty Hospital for physical therapy
MATH	Vaccines vs antibiotics Percentages Financial aspects	Who does the flu affect? Graphs of people affected in different countries.		
JOURNALISM	Newsroom: Report back on Visit 4 Writing Lab: Article 4 Intro to Press Ethics	Press Ethics	Press Ethics Debate Photo Assignment #5	
CAREER	Job Searching	Resume Building		

WEEK SIX	MONDAY August 10	TUESDAY August 11	WEDNESDAY August 12	THURSDAY August 13	FRIDAY August 14
BIOMED	Surgery	Prosthetics Make your own prosthetic	Post Assessment Financial Goals Practice Presentations	<i>College Visit:</i> <i>Female Students—</i> Bay Path College Occupational Therapy <i>Male Students—</i> AIC/ Springfield College/ STCC?	<i>Graduation!</i> <i>HCC Kittredge Center</i> -Presentations of Portfolios, Pictures
MATH	Medical bills/insurance?	Complete budget plan	Review Portfolios Final Interviews		
JOURNALISM	NewsRoom: Report back on Visit 5 Writing Lab: Final Article, Resume (personal essay)	Writing Lab: Personal Essay Editing Photos, Final Project			
CAREER	Finalize Resumes	High School Portfolio Final Interviews			