

AGENDA
AstroTech 2021 Summer School
July 19 - 23, University of California Berkeley

Sunday, July 18

Check into Hotel Shattuck upon arrival: Check in begins at 3:00 pm

***** Please bring laptops (or equivalent) every day! *****

Meet in Campbell Hall Building (Campbell) 131 every morning

Day 1: July 19, Monday		
Time	Location (Campbell Hall)	Session
9:00-9:25	131	Welcome
9:25-9:40	131	Instrumentation career progressions & making the most of AstroTech
9:40-10:05	121 + 131	Lab ground rules
10:05-10:20		BREAK
10:20-11:35	131 for intro, synthesis 121+131 for stations	Intro to optics
11:35-12:30	625, then on own	LUNCH
12:30-2:45	241 + 225 + 229	Group A: Image formation (including break)
12:30-1:15	131	Group B: Kirchoff's Laws demo + Intro to spectrographs
1:15-2:45	131	Group B: Inclusive teamwork (including break)
2:45-3:00		BREAK (A&B groups switch)
3:00-3:45	131	Group A: Kirchoff's Laws demo + Intro to spectrographs
3:45-5:15	131	Group A: Inclusive teamwork (including break)
3:00-5:15	241 + 225 + 229	Group B: Image formation (including break)
5:15-5:30	131	Wrap up Day 1

Day 2: July 20, Tuesday		
Time	Location (Campbell Hall)	Session
9:00-9:30	131	Reflections & intro to day
9:30-9:45	131	Overview of BYOS structure and team formation
9:45-10:00		BREAK
10:00-12:00	121 + 131	Gratings and design, part 1
12:00-1:00	625, then on own	LUNCH
1:00-2:10	121 + 131	Gratings and design, part 2 (including break at end)
2:10-2:30	121 + 131	Develop science cases

2:30-2:45	241	"Marketplace" (quick preview of available equipment)
2:45-3:30	131 + possibly 121	Create spectrograph conceptual design and poster for showcase
3:30-4:15	131 + possibly 121	Showcase spectrograph concepts
4:15-4:30		BREAK
4:30-5:00	131	Announce spectrograph concepts for Day 3-5 and collect input on specialist roles
5:00-5:15	131	Teamwork reflection
5:15-5:45	131	Prep for career pathways roundtable
5:45-5:55	131	Wrap up Day 2

Day 3: July 21, Wednesday		
Time	Location (Campbell Hall)	Session
9:00-9:30	131	Reflections & intro to day
9:30-10:15	131	What does it take to build a world class astronomical instrument? (guest lecture)
10:15-10:30		BREAK
10:30-12:00	121 + 131	Career pathways roundtable discussions
12:00-1:20	625, then on own	LUNCH
1:20-2:20	131	Revisit requirements and design (prepare to split into specialist groups)
2:20-4:35	241	BYOS: Optomechanics, part 1 Includes BREAK
2:20-4:35	225 + 229	BYOS: Electronics, part 1 Includes BREAK
2:20-4:35	131	BYOS: Calibration hardware, part 1 Includes BREAK
2:20-4:35	131	BYOS: Detector, part 1 Includes BREAK
2:20-4:35	121	BYOS: Software, part 1 Includes BREAK
4:35-5:25	131	Spectrograph teams check in
5:25-5:35	All rooms	Leave equipment in safe condition before Day 3 wrap-up
5:35-5:45	131	Wrap up Day 3

Day 4: July 22, Thursday		
Time	Location (Campbell Hall)	Session
9:00-9:30	131	Reflections & intro to day
9:30-10:00	131	Phases of Instrument Development
10:00-10:15		BREAK
10:15-12:30	241	BYOS: Optomechanics, part 2 Includes BREAK
10:15-12:30	225 + 229	BYOS: Electronics, part 2 Includes BREAK
10:15-12:30	131	BYOS: Calibration hardware, part 2 Includes BREAK

10:15-12:30	131	BYOS: Detector, part 2 Includes BREAK
10:15-12:30	121	BYOS: Software, part 2 Includes BREAK
12:30-1:30	625, then on own	LUNCH
1:30-2:15	131	Intro to integration & testing
2:15-4:00	1 team per room	Integration & testing (includes Break) Leave equipment in safe condition before end of day
4:00-4:15		BREAK
4:15-5:00	131	Revisiting teamwork
5:00-5:15	131	Wrap up Day 4

Day 5: July 23, Friday		
Time	Location (Campbell Hall)	Session
9:00-9:30	131	Reflections & intro to day
9:30-12:00	1 team per room	Integration and testing, part 2 Includes BREAK
12:00-1:00	625, then on own	LUNCH
1:00-1:15	131	Introduce final spectrograph showcase
1:15-2:30	1 team per room	Prepare for showcase
2:30-2:45		BREAK
2:45-4:15	All rooms (rotate through 5 instruments)	Final spectrograph showcase
4:15-5:00	131	Summer school close + closing survey
		BREAK
5:30-7:00	Hotel Shattuck Courtyard	FINAL RECEPTION

Saturday, July 14

Check out of Hotel Shattuck by 12:00 pm noon