General Biomedical Engineering Majors, Senior/Alumnus Application: Glide Year(s)

YEAR OF	FALL	SPRING	SUMMER		
PROGRAM					
	Chem 131	Chem 132	Volunteer/meaningful		
			clinical/research employment		
FRESHMAN	Mth 161/ Mth 141	Mth 162/ Mth 142	Mth 143		
	WRT 105	Cluster			
	Major 1	Major 2			
	Organic Chem 203	Organic Chem 204	Volunteer/meaningful		
	w/ lab	w/ lab	clinical/research employment		
	Bio 110	Bio 111 w/ lab			
SOPHOMORE	Cluster	Major 4			
	Major 3	Major 5			
	Volunteer/meaningful	Volunteer/meaningful clinical/research employment			
	Phys 113 w/ lab	Phys 114 w/ lab	Volunteer/meaningful		
			clinical/research employment		
	Stt 212	Major 7			
JUNIOR	Major 6	Major 8			
	Cluster	Cluster/Elective			
	Volunteer/meaningful clinical/research employment				
	Bio 198 w/ lab	Bio250 w/ lab	Volunteer/meaningful		
			clinical/research employment		
	Major 8	Major 11			
CENTOD	Major 9	Major 12			
SENIOR	Cluster/Elective	Cluster/Elective	MCAT		
Volunteer/meaningful clinical/research			oyment		
	Apply for glide year(s) activities				
	Advanced Science	Advanced Science	Apply by June 1st		
GLIDE YEARS	courses/lab/work	courses/lab			
		MCAT (if not taken			
		already)			
	Interview		Matriculate (End of summer)		

^{*}This is a GENERAL schedule of courses; depending on particular concentration, each student's courses will vary.

Pros:

- Include senior design project and recommendations stemming from project.
- More opportunity to space out challenging pre-requisite and engineering courses.

- Challenging to complete pre-requisites during the academic school year so it is likely that some courses will need to be done in the summer session. Unless extenuating circumstances exist, students should plan on taking summer courses at UR.
- Spend time investigating and applying to Glide year programs/jobs/activities.
- Additional time until you are a physician can be expensive.

^{*}Additional science electives can, and should be, fulfilled by Bio 111/113 w/lab; 198 w/lab; Bio 250 w/lab.

^{*}Organic chemistry should be taken junior year in order to spread out challenging courses as much as possible.

General Biomedical Engineering Majors, Junior Application: Direct Matriculation

YEAR OF	FALL	SPRING	SUMMER
PROGRAM		a) 100	
	Chem 131	Chem 132	Volunteer/meaningful
	25.1 4.64 / 25.1 4.44	M.1 460 / M.1 440	clinical/research employment
FRESHMAN	Mth 161/ Mth 141	Mth 162/ Mth 142	Mth 143
TRESIDIAN	WRT 105	Cluster	
	BME 101	Phys 121	
	BME 201 w/ lab	BME 210	Volunteer/meaningful
	Bio 110	Mth 164	clinical/research employment If necessary for scheduling:
	DIO 110	With 104	Bio 110/111 w/ lab
SOPHOMORE			Bio 198 w/ lab
	Mth 163 or 165	Cluster	,
	Phys 122	Eng conc. course or	
		science elective	
		(Bio 111/113 w/L)	
	Volunteer/meaningful clinical/research employment cont'd		
	Science elective: Organic	Science elective	Volunteer/meaningful
	Chem 203 w/ lab	(unless optics):	clinical/research employment
		Organic Chem 204	
	DME 220	w/ lab	
	BME 230	BME 221/099 L	
JUNIOR	Eng conc. Course, sci. elective OR STT 212*	BME 245 w/ L	
	Cluster or Eng Conc.	Bio 250 w/ L	
	Course)		
		MCAT (Score by	Apply by June 1st
July 1st) Volunteer/meaningful clinical/research employment cont'd			ment cont'd
	BME 295	BME 296	Volunteer/meaningful
		D. 12 4 7 0	clinical/research employment
	BME 260		
ams	Conc. Course (ULW)		
SENIOR	Eng Conc. Course		
	Interview		Matriculate (end of summer)
	Volunteer/meaningful clinical/research employment cont'd		

^{*}It is generally recommended for students to complete a statistics course.

Pros:

- No need to spend time applying for glide year projects/activities/jobs.
- Less expensive to begin career as a physician earlier.

- Applying as a junior means applying without the benefit of the senior design project.
- GPA and references will not be as strong as they could be if they included senior year.
- Less mature of a candidate.
- Medical school interviews take place during senior year.

Biomechanical Engineering, Junior Application: Direct Matriculation

YEAR OF PROGRAM	FALL	SPRING	SUMMER	
FRESHMAN	Chem 131	Chem 132	Volunteer/meaningful clinical/research employment	
	Mth 161/ Mth 141	Mth 162/ Mth 142	Mth 143	
	WRT 105	Cluster		
	BME 101	Phys 121		
	BME 201 w/ lab	BME 210	Volunteer/meaningful clinical/research employment	
	Bio 110	Mth 164		
SOPHOMORE	Mth 163or 165	Cluster		
	Phys 122	ME 226	Bio111 w/ lab Bio 250 w/ lab *	
	Volunteer/meaningful clinical/research employment cont'd			
	Organic Chem 203 w/ lab	Organic Chem 204 w/lab	Volunteer/meaningful clinical/research employment	
	BME 230	BME 221/099 L		
	Bio 198 w/ lab	BME 245 w/ L		
JUNIOR	STT 212**	ME123		
		MCAT (Score by July 1st)	Apply by June 1st	
	Volunteer/meaningful clinical/research employment cont'd			
	BME 295	BME 296	Volunteer or meaningful clinical and/or research employment	
	BME 260	Elective		
	ULW BME	Elective		
SENIOR	ME225	Cluster		
	Interview		Matriculate (end of Summer)	
Volunteer/meaningful clinical/research employment cont'd			nent cont'd	

^{*}Student will need to obtain special permission to take Bio 250 without pre-requisite Bio 198.

Pros:

- No need to spend time applying for glide year projects/activities/jobs.
- Less expensive to begin career as a physician earlier.

- Applying as a junior means applying without the benefit of the senior design project.
- GPA and references will not be as strong as they could be if they included senior year.
- Less mature of a candidate.
- Medical school interviews take place during senior year.

^{**}It is generally recommended for students to complete a statistics course.

BioSignals Engineering, Junior Application: Direct Matriculation

YEAR OF	FALL	SPRING	SUMMER
PROGRAM		Ji Kiivu	SOMMER
	Chem 131	Chem 132	Volunteer/meaningful
			clinical/research employment
FRESHMAN	Mth 161/ Mth 141	Mth 162/ Mth 142	Mth 143
	WRT 105	Cluster	
	BME 101	Phys 121	
	BME 201 w/ lab	BME 210	Volunteer/meaningful
			clinical/research employment
	Bio 110	Mth 164	
SOPHOMORE	Mth 163or 165	Cluster	
	Phys 122	Bio111/113 w/ lab	Bio 198 w/ lab *
	Volunteer/meaningfu	ıl clinical/research emplo	yment cont'd
	Organic Chem 203 w/	Organic Chem 204 w/	Volunteer/meaningful
	lab	lab	clinical/research employment
	BME 230	BME 221/099 L	
имиор	ECE221/BME228	BME 245 w/ L	
JUNIOR	STT 212*	Bio 250 w/ lab	
		MCAT (Score by July 1st)	Apply by June 1st
	Volunteer/meaningful clinical/research employment cont'd		
	BME 295	BME 296	Volunteer/meaningful
			clinical/research employment
	BME 260	ULW BME	
	ECE 230	Elective	
SENIOR	ECE 246	Cluster	
	Interview		Matriculate (end of Summer)
	Volunteer/meaningful clinical/research employment cont'd		

^{*}It is generally recommended for students to complete a statistics course.

Pros:

- No need to spend time applying for glide year projects/activities/jobs.
- Less expensive to begin career as a physician earlier.

- Applying as a junior means applying without the benefit of the senior design project.
- GPA and references will not be as strong as they could be if they included senior year.
- · Less mature of a candidate.
- Medical school interviews take place during senior year.

Cell & Tissue Engineering, Junior Application: Direct Matriculation

YEAR OF PROGRAM	FALL	SPRING	SUMMER
TROURAM	Chem 131	Chem 132	Volunteer/meaningful clinical/research employment
FRESHMAN	Mth 161/ Mth 141	Mth 162/ Mth 142	Mth 143
	WRT 105	Cluster	
	BME 101	Phys 121	
	BME 201 w/ lab	BME 210	Volunteer/meaningful clinical/research employment
	Bio 110	Mth 164	
SOPHOMORE	Mth 163or 165	Cluster	STT 212*
	Phys 122	CHE 243	Bio 111 w/ lab
	Volunteer/meaningful clinical/research employment cont'd		
	Organic Chem 203 w/	Organic Chem 204 w/	Volunteer/meaningful
	lab	lab	clinical/research employment
******	BME 230	BME 221/099 L	
JUNIOR	CH 244	BME 245 w/ L	
	Bio 198 w/ lab	Bio 250 w/ lab	
		MCAT (Score by July 1st)	Apply by June 1st
	Volunteer/meaningful clinical/research employment cont'd		
	BME 295	BME 296	Volunteer/meaningful clinical/research employment
	BME 260	ULW BME	
SENIOR	BIO 210	Elective	
	CHE 225	Cluster	
	Interview		Matriculate (end of Summer)
	Volunteer/meaningful clinical/research employment cont'd		

^{*}It is generally recommended for students to complete a statistics course.

Pros:

- Direct entry to medical school can be less expensive.
- Begin medical career at a slightly younger age.
- No need to spend time to investigate and apply to glide year programs/jobs/activities.

- Thesis work, recommendation letters from senior year classes and the improved GPA that is often seen in senior year will not be a part of application package.
- Besides the academic rigor in this program, student may be at a disadvantage compared to other applicants who have had more time to build their resumes and gain relevant experience and maturity.
- Limits student participation in study abroad programs to the summer months.
- Medical school interviews take place during senior year.

Medical Optics Engineering, Junior Application: Direct Matriculation

YEAR OF	FALL	SPRING	SUMMER	
PROGRAM				
	Chem 131	Chem 132	Volunteer/meaningful	
ļ			clinical/research employment	
PD POVINAN	Mth 161/ Mth 141	Mth 162/ Mth 142	Mth 143	
FRESHMAN	WRT 105	Cluster		
	BME 101	Phys 121		
	Volunteer/meaningful clinical/research employment			
	BME 201 w/lab BME 210 Volunteer/meaningful			
	DME 201 W/ lab	DWE 210	Volunteer/meaningful clinical/research employment	
	Bio 110	Mth 164		
SOPHOMORE	Mth 163 or 165	STT 212*		
	Phys 122	BME 270	Bio111 w/ lab	
			Bio 250 w/ lab **	
Volunteer/meaningful clinical/research employment			ent	
	Organic Chem 203 w/	Organic Chem 204 w/	Volunteer/meaningful	
	lab	lab	clinical/research employment	
	BME 230	BME 221/099 L		
HIMIOD	OPT 241	BME 245 w/ L		
JUNIOR	Bio 198 w/ lab	OPT 261		
		MCAT (Score by July	Apply by June 1st	
	T 1 . /	1st)	L	
	Volunteer/meaningful clinical/research employment			
	BME 295	BME 296	Volunteer/meaningful clinical/research employment	
	BME 260	Elective	enmony research employment	
SENIOR	Cluster	Elective		
	ULW BME	Cluster		
	Interview		Matriculate (end of Summer)	
	Volunteer/meaningful clinical/research employment			

^{*}It is generally recommended for students to complete a statistics course.

Pros:

- Direct entry to medical school can be less expensive.
- Begin medical career at a slightly younger age.
- No need to spend time to investigate and apply to glide year programs/jobs/activities.

- Thesis work, recommendation letters from senior year classes and the improved GPA that is often seen in senior year will not be a part of application package.
- Besides the academic rigor in this program, student may be at a disadvantage compared to other applicants who have had more time to build their resumes and gain relevant experience and maturity.
- Limits student participation in study abroad programs to the summer months.
- Medical school interviews take place during senior year.

^{**}Student will need to obtain special permission to take Bio 250 without pre-requisite Bio 198.