

# Ph.D. Preliminary Examination

CHE & MAE Departments

<b>ELECTIVE SUBJECT AREAS:</b>	<b>COURSE WORK INVOLVED:</b>
ADVANCED THERMODYNAMICS	MAE 641
AEROMECHANICS (ADVISOR PERMISSION)	MAE 610
CONTINUUM MECHANICS	MAE 671
DYNAMICS	MAE 563
PROPULSION (ADVISOR PERMISSION)	MAE 540, 640
SOLID MECHANICS/MATERIALS	MAE 574
THERMAL SCIENCES/HEAT TRANSFER	MAE 643
VISCOUS FLUID MECHANICS	MAE 651
SYSTEMS ENGINEERING	ISE 627

1. Students will take three topic exams:  
ME/ASE: Mathematics (MAE 692) and two exams in the Elective Subject Areas;  
ChemE: Mathematics (MAE 692) and two exams from the Chemical Engineering Elective Subject Areas (CHE 641, CHE 648, CHE 658).
2. Those who intend to take the exam should register online via the Prelim Google form [\[https://goo.gl/forms/b5ld9uBF1w6hISBz1\]](https://goo.gl/forms/b5ld9uBF1w6hISBz1) or complete the Preliminary Examination Registration Form in the MAE Department Office (OKT N274)
3. Sample problems from previous exams are available to students taking the Preliminary Examination (email Zeke Aguilera at [aguilee@uah.edu](mailto:aguilee@uah.edu) for details).