

# Honors in ChE

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**Out of the 4 courses required to complete your honors degree, two are compulsory courses and two are dept electives.**

### Honours Core [O]

#### Honours Core Groups

Under Honors Core Courses

=> Courses allowed from list CL 325,CL 336.

### Honours Elective [E]

#### Honours Elective Groups

Under Honors Elective Courses

=> Courses allowed from list CL 603,CL 708,CL 604,CL 684,CL 688,CL 653,CL 613,CL 443,CL 445,CL 706,CL 716,CL 718,CL 717,CL 724,CL 722,CL 665,CL 651,CL 673,CL 678,CL 726,CL 669,CL 715.

- CL325 and CL336 are the compulsory courses.
- The other two courses need to be done out of the basket of honours electives
- Since there is some overlap with courses from the department elective basket, it allows you more freedom while retagging to maximize your CPI

# A brief overview of a few courses.

## Advanced Transport Phenomena - CL336 (odd semester)

- Reynolds Transport Theorem, Mass/momentum/energy conservations equations, nature of Navier Stokes equation, scaling methods and perturbation
- The course content is a bit on the tougher side but the professor really helps build up knowledge from the base, be sure to ask doubts as this is one of the courses that will help you fundamentally make sense of most of the equations we use.
- It demands time commitment, not just for assignments but for understanding the content as well.

## Chemical Reaction Engineering 2 - CL325 (even semester)

- Stoichiometric and kinetic overview of reactions, reactor design equations and parameters, nuances of the energy balance equation, reaction time distribution
- The course involves a lot of discussion between the professor and students, be sure to take advantage of that!
- There are course projects to look forward to and also surprise quizzes xD.

## SLP-IDP (both semesters)

- Unique course that gives you a taste of industrial problems, you get to solve real world problems and apply academia concepts to give practical solutions
- Gives you a taste of what real jobs in the chemical world look like so that's something that will help you make an informed decision about your career as well
- The course requires moderate time commitment, you get to do it in teams that you can select so that's always a plus

## Why an honors is a good idea.

- An honors allows you to explore the field of your choice in greater depth.
- It gives you leeway in terms of course you can retag to increase your CPI.
- It allows you to take up more complicated research projects or move forward rapidly in the ones you are already doing as you get deeper knowledge about the field.
- It helps get a better, deeper understanding of the course content being covered in your core courses. A lot of honours courses have course projects that require you to read up about the subject matter from various sources and get a broader view of the branch

## Juggling Honours and Minor together

- Handling honours and minor together with your core courses can be a bit much at times, especially if your core courses are heavy during particular semesters
- Be sure to make an informed choice in terms of the course you're taking, the semester it's running in, the professor in charge etc
- Try to have an overlap with the field you want to explore and the honours elective you end up taking. It may be possible that certain courses in your minor have an overlap with your honours - if that happens, great!

**Thank you**