

Course: CHEM 571 Polymer Synthesis

Instructors: Professors Ashok Kakkar and Christopher Barrett

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Brief course description:

This course will develop an appreciation for polymers that have and continue to play an important role in our lives. Various synthetic methodologies which have evolved over the years from simple addition/condensation polymerization to ring opening and click chemistry, will be evaluated for the construction of linear, branched (miktoarm) and hyperbranched (dendrimers) macromolecules. Their role in addressing key issues in a variety of fields including biomedical, nanotechnology, electronics etc will be demonstrated.

Method of Delivery:

On-Line *via* ZOOM

Evaluation Scheme:

Kakkar:

Homework assignment: 10%

Mid-Term Exam I: 20%

Mid-Term Project: 20%

Barrett:

Homework assignment: 10%

Mid-Term Exam II: 20%

Term Project: 20%