IUP Graduate Handbook

Applied and Industrial Chemistry, MS

Madia Department of Chemistry [Weyandt Hall, Room 143 975 Oakland Avenue Indiana, PA 15705-1076 Phone: 724-357-2361]

Program Websitettps://www.iup.edu/chemistry/grad/

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[Industrial and Applied Chemistry] | Indiana University of Pennsylvania

Faculty and Staff

Dr. Colin Ashe. Conceptual Learning in Chemistry, Use of Comp

Dr. George Long. Laser spectroscopy; the use of compaters ducation mincluding the development of on-line chemistry courses; Cognitive processes and introduction in chemical education.

Dr. Sudipta Majumdar. The goal of our research is t**e utiliqee** hproperties of proteins, peptides and DNA for developing biocatalyst and **Dicesterispo**es and methods investive fanvalue cular biology and protein engineering tools, in **castional**, semi-rational and evolutionary approaches.

*Dr. Sanda Andrada Maicaneanu*The goal of our research is toysuseessious materials for water and wastewater treatment usingytionapdteatalytic processes.

Dr. Nathan McElroy. My current researclesitsteat IUP deal with wateriquests, with a particular focus on the effects of Marcellus shale gas extractionuinty ladid was Stern Penns Since 2011, my students and I have been involved in a water monitoting Bearly and Run Reservoir in Westmoreland County.

Dr. Ronald See Our research works to und**bespanys** ical basis for the **boddst** ructure of a variety of chemical species. Currently, we are focusing intermetter big a diabetion and organometallic compounds, as expressed in both discrete molecular arcome potended macromolecular arrays.

Dr. Hao Tang. Tang's research lab focuses gindering aspects of deipacitation technology for water desalination; emerging disinfection by-products for tobirstrate grater; and, fat, d grease removal from wastewater.

Dr. Jana Villemain. Using molecular biology and protein bioschuelynisteystructure-function relationships of proteins; particularly focused bioristleed ween homologous record bioscilication proteins that appear to mediate it.

Admission

The following documents must beisd bwilltbeed considered applying:

Online application \$60 nonrefundable application fee Bachelor's degree in a orraphingedical science or engineeraiogrifedited institution with a GPA of 2.8 or higher. Coursework equivalent a orrain berais Chem (addycredit hours) Official transcripts from althoughted te institutions attended Written personal statement: One page descrifts in agric an teenego and contract ad infs for the program Two letters of recommendation Professional resume

For international Students. The minimum acceptable IELTS score requirement is 540 (paper-based) or 76 (Internet-based).

Graduate Admissions/graduate/

official communications. It is your responsibility to check your IUP email regularly. Visit <u>www.iup.edu/itsupportcenter/howTo.aspx?id=2</u>3**4**0**4**earn more about setting up this account. For more information regarding University polic**groa**il communication, view the Graduate Catalog: <u>www.iup.edu/gradcata</u>log

Graduate Student Assembly

The Graduate Student Assembly (GSA) represents the graduate student body's interests at IUP and within the Indiana community. The GSA makes mean dations related University-wide and graduate-specific policies and in areas of concern in the culture the culture bectual, and social life of the part- and full-time graduate student. Visit/w.iup.edu/graduatestudies/@samore information.

Programs and Degrees

Master's Program Master's in Science, **Applie**Industrial Chemistry

Early Registration / 4+1 Masterie ince Applied and Industrial Chemistry

Course Descriptions

1. Core Courses (12 crs)*

Usually four courses in the areas of Inorganialy (Dicate, nRh, Asical cheoristic), (12 credits)

2. Science electives (3-6 crs) The student may select courses from the any science discipline, or they may 6 credits of independent research report (5 pages) ministrue completed at the end of each CHEM 690 course.

3. Professional Development courses (6-9 crs, two or three coursets for Orollege of Business and information Technology. Courst courses at the double of above. 300 wert for above. 300 wert for the consent of the co

4. Seminar 2 - CHEM 600 (2 crs) Students are required to present a seminar.

5. Internship requirement - CHEM 799 (4 crs)*. The Graduate coordinators and coordinators and securing guidance in arrangemininternship. <u>that student is ultimately responsible for initiating and securing</u> <u>the internship</u>. The Internship should benarminofi 3 months, and may be down periodence at IUP, if no external internship is available. The acceptation is provided in experience is determine internship committee. Before an external internship catherne creases, be a signed shipt agreement with the host company on file.

Internship committee – The internship commissiee of herould doos strial advisor, a faculty advisor, and 2 graduate faculty. A written report is here to be your internship experience.

Previous work experience – Previous work im thester permissible counted as an internship experience, however, an internship committee mest that includes a supervise work site, and a paper must be written about the experience.

* At least 15 credits from the total of required and elective courses mustome from 600-level or higher.

Evaluation of Students

For information regarding School Graduate Studies and Restepolicies on grading, view the Graduate Catalog www.iup.edu/gradcatalog

Students take 26 credits of coursewill ble anvaluated on each ceurises toy attors. Students also take 4 credits of internship, for which to be ubravice final internship reporter instead by internshi committee which includes three of the chemistry department.

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