| Course Name | Faculty Qualifications Needed | Related Disciplines | Acceptable Alternative Qualifications |
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| CHEM 5000 Advanced Inorganic Chemistry I | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Inorganic Chemistry, Materials Chemistry, Organometallic Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Inorganic Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5010 Advanced Inorganic Chemistry II | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Inorganic Chemistry, Materials Chemistry, Organometallic Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Inorganic Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5110 Research | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Analytical Chemistry, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Biochemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Analytical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5120 Thesis Writing | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Analytical Chemistry, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Biochemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Analytical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5210 Advanced Organic Chemistry I | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Organic Chemistry, Organometallic Chemistry, Medcinal Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Organic Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |

| CHEM 5220 Advanced Organic Chemistry II | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Organic Chemistry, Organometallic Chemistry, Medicinal Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Organic Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
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| CHEM 5310 Advanced Physical Chemistry I | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Physical Chemistry, Industrial Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Physical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5320 Advanced Physical Chemistry II | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Physical Chemistry, Industrial Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Physical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5360 Chemical Kinetics | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Physical Chemistry, Chemical Engineering, Industrial Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Physical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 5410 Advanced Biochemistry I | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Biochemistry, Pharmacology, Biomedical Sciences | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Biochemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |

| CHEM 5420 Advanced Biochemistry II | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Biochemistry, Pharmacology, Biomedical Sciences | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Biochemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
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| CHEM 5510 Advanced Analytical Chemistry | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Analytical Chemistry, Physical Chemistry, Chemical Engineering | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Analytical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |
| CHEM 5600 Spectroscopic Methods in Chemistry | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Analytical Chemistry, Physical Chemistry, Material Science and Engineering | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Analytical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |
| CHEM 6005 Seminar I | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Industrial Chemistry, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Biochemstry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Industrial Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |
| CHEM 6006 Seminar II | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Industrial Chemistry, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Biochemstry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Industrial Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |

| CHEM 6405 Special Topics in Analytical Chemistry | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Analytical Chemistry, Physical Chemistry, Chemical Engineering | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Analytical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |
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| CHEM 6407 Special Topics in Inorganic Chemistry | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Inorganic Chemistry, Materials Chemistry, Organometallic Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Inorganic Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 6408 Special Topics in Organic Chemistry | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Organic Chemistry, Organometallic Chemistry, Medicinal Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Organic Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 6409 Special Topics in Physical Chemistry | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Physical Chemistry, Industrial Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Physical Chemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Chemistry related fields. |
| CHEM 6200 Biochemistry of Cellular Signal Transduction | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Biochemistry, Molecular Biology, Cell Biology, Pharmacology, Biomedical Sciences | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Biochemistry, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |

| CHEM 6500 Cancer Biochemistry and Biology | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Biochemistry, Cancer Biology, Pharmacology | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Cell Biology, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |
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| CHEM 6800 Advanced Pharmacology | Earned Doctorate degree in Chemistry in the teaching discipline or a closely related discipline. | Pharmacology, Biomedical Sciences, Medicinal Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or Pharmacology, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |
| CHEM 6406 Special Topics in Biochemistry | | Biochemistry, Biomedical Sciences, Organic Chemistry | Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in Chemistry or, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in Cemistry related fields. |