| B. | S. in | Informa | atio | n Sciences and Te IUG Long | | | | | rmatics su ID | | |
|--|-------|------------|----------|---|---|---|------------|---|-----------------------------------|-----|-------------------|
| Core Curriculum (3-6 credits) IST 504: Foundations of Theories and Methods for Information Sciences and Technology Research (fall) IST 505*: Foundations of Research Design in Information Sciences and Technology (spring) *OPTIONAL: if taken, counts as research methods credits. | | | The as (| Specialization Courses (12-18 credits) choose courses in one or more areas to support thesis or scholarly paper. e shared UG courses will count 6 specialization credits. e specialization courses are ed on the MS Informatics Audient | | Research Methods (6 credits) Select two research methods courses to develop a basic understanding of research methods. Click here to view the approved methods course list. | | Capstone Experience (3-6 credits) Choose capstone option. Thesis - IST 600 Students who select the thesis option must take IST 505 and register for 6 credits of IST 600. Or Scholarly Paper - IST 594 | | | |
| Total Undergrad Un (Do not include in-progree JUNIOR YEAR Fall | | UG/ GR/ | | | | Cr. | UG/ GR/ | | nted IUG Cour ist course & sem | • | |
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| Undergrad (UG+IUG) SENIOR YEAR | | UG/ | | Undergrad (UG+IUG) | | | UG/ | Underg | rad (UG+IUG) | | |
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Required Signatures

Undergraduate Advisor Signature

Graduate Director Signature

Student Signature

FINAL YEAR

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| Grad (GR+IUG) | | |

| Schreyer's Advisor Signature |
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| (if necessary) |

Notes:

- 1. Up to 12 credits/four courses may be "double-counted" on both the undergraduate and graduate transcripts. A minimum of 50% of the courses proposed to count for both degrees must be at the 500 or 800-level. When we talk about these courses, we talk about them as:
 - i. UG courses: appear only on the undergraduate transcript
 - ii. IUG courses: courses that appear on both the undergraduate and graduate transcript.
 - iii. GR courses: appear only on the graduate transcript.
- 2. 6 of the 18 credits (6 research methods credits + 12 specialization courses) must be in the major (IST)
- 3. Every semester, students must complete the "IUG Semester Report," obtain all signatures and submit to the Graduate School.
- 4. IUG students must maintain 12 credits to be a full-time student; 15 credits per semester is standard.

| Summer | Cr. | UG/ GR/ IUG |
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| Undergrad (UG+IUG) | | |
| Grad (GR+IUG) | | |

Date

Date

Date

Date

Courses eligible to double count for both Information Sciences & Technology BS/Informatics MS

- GR courses (IST 504 required) used as a UG support of option area
- UG courses used as graduate specialization course requirement.

| Course | Title | Credits |
|---------|--|---------|
| IST 411 | Distributed-Object Computing | 3.0 |
| IST 412 | The Engineering of Complex Software Systems | 3.0 |
| IST 413 | Usability Engineering | 3.0 |
| IST 420 | Fundamentals of Systems and Enterprise Integration | 3.0 |
| IST 421 | Advanced Enterprise Integration: Technologies and Applications | 3.0 |
| IST 431 | The Information Environment | 3.0 |
| IST 432 | Legal and Regulatory Environment of Information Science and Technology | 3.0 |
| IST 505 | Foundations of Research Design in Information Sciences and Technology | 3.0 |

**Culminating Experience – Thesis or Scholarly paper

Students may choose a thesis or scholarly paper to fulfill the culminating experience.

Thesis

Students who choose the thesis option must register for 6 credits of IST 600 or IST 610, write a satisfactory thesis accepted by the master's committee, the head of the graduate program, and the Graduate School, and pass a thesis defense. Selecting the thesis option may require more than 1-year to complete. We recommend you take IST 505 if you choose the thesis option, it can be applied as an elective.

Scholarly Paper

Students who choose the scholarly paper option must register for at least 3 credits of IST 594 and complete the scholarly paper. The scholarly paper will be a focused piece of technical work that applies the student's expertise and knowledge base, and that is documented and presented as a scholarly paper report.

Note: Students who choose the thesis or scholarly paper have the option to work on their research project in more than one semester.