

Statistical Science (B.A.) AFFILIATION PROCEDURES

- 1) Familiarize yourself with the Undergraduate Web Site, including in particular the requirements for affiliation with the major:

<http://www.stat.cornell.edu/academics/index.shtml>

If you have completed the PREREQUISITES FOR AFFILIATION, then you are ready to apply.

- 2) To APPLY: In pencil, fill out attached DEGREE CHECKLIST and BACKGROUND FORM. Degree checklists should include past, current and future courses.
- 3) Request and append an OFFICIAL TRANSCRIPT to the forms listed in step 2. Official transcripts can be obtained from the University Registrar's Office in B-7 Day Hall or online at transcript.cornell.edu. Highlight the courses you've taken to satisfy the major prerequisites.
- 4) SUBMIT YOUR APPLICATION. Completed affiliation applications should be clipped or stapled, and either sent via mail or submitted in person to Bea Johnson in room 1198 Comstock Hall. (First semester sophomores are not typically admitted until their fall grades become available). You will be notified via email whether or not you have been accepted to the major. If accepted, you will be assigned a faculty advisor and his/her name will be included in the same message.
- 5) MEET YOUR NEW ADVISOR, introducing yourself as a "new advisee." Be prepared to discuss your academic program and career plans. Request and schedule your appointment via email when possible.
- 6) Use worksheets and other materials to document and project your degree progress. STSCI majors are expected keep current on matters affecting the major. Although the Department of Statistical Science will monitor your progress toward the completion of your major requirements, you are responsible for monitoring your college-level requirements.

Should you require further assistance, please email <bj11@cornell.edu>.

STSCI CHECKLIST (ARTS)

Name: _____
 Email: _____@cornell.edu
 Advisor: _____

Gender: female male
 Cornell ID: _____

Degree Date (expected)

| Term | GPA | Term | GPA | Term | GPA |
|------|-----|------|-----|------|-----|
| | | | | | |
| | | | | | |

| COLLEGE REQUIREMENTS | | | | |
|---|----|-----|----|----------------------------------|
| Course | Cr | Sem | Gr | Advising Notes |
| FWS | | | | Freshman Writing Seminars |
| FWS | | | | |
| 5 courses (3+ credits) one from each of 4 different categories: | | | | |
| COLLEGE LEVEL REQUIREMENTS | | | | |
| RESPONSIBILITY | | | | |
| OF STUDENT | | | | |
| Cultural Analysis (CA), Historical Analysis (HA), Knowledge, Cognition, & Moral Reasoning (KCM), Literature and the Arts (LA), Social & Behavioral Analysis (see Courses of Study) | | | | |
| Foreign Language requirement (see Courses of Study) | | | | |
| Lang | | | | |
| Lang | | | | |
| Lang | | | | |

Geographical Breadth (@)

Historical Breadth (#)

| MATHEMATICS AND SCIENCE REQUIREMENTS | | | | |
|--------------------------------------|----|-----|----|--|
| Course | Cr | Sem | Gr | Advising Notes |
| PBS | | | | PBS= Physical/Biological Sciences (see Courses of Study) |
| PBS | | | | |
| MATH 1110 | 4 | | | Calculus Requirement |
| MATH 1120/1220 | 4 | | | |

| STSCI MAJOR SPECIALIZATION | | | | |
|----------------------------|----|-----|----|---|
| Course | Cr | Sem | Gr | Advising Notes |
| Spcl | | | | Specialization 300+ courses (3+ crs) from same subject area.* |
| Spcl | | | | |
| Spcl | | | | NO STSCI / Statistics courses eligible |

Double Counting: No course may be used to satisfy two or more requirements except those used for the breadth requirements, or (in some cases) courses in the Specialization may be counted as Arts College distributions.

* At least one course to include paper, project or research with substantive, non-trivial application of statistical methods to subject-related data.

| STSCI MAJOR CORE | | | | |
|---|----|-----|----|--|
| Course | Cr | Sem | Gr | Advising Notes |
| MATH 2210 | 4 | | | Math 2230-2240 or 2930-2940 or 2130-2310 |
| MATH 2220 | 4 | | | are also acceptable |
| PHIL 2300, 2310 or 2610 | 4 | | | Philosophy elective |
| STSCI 2200 | 4 | | | Biological Statistics I (cross-listed as BTRY 3010 / NTRES 3130) |
| STSCI 3200 | 4 | | | Biological Statistics II (cross-listed as BTRY 3020 / NTRES 4130) |
| STSCI 3080 | 4 | | | Probability Models and Inference (cross-listed as BTRY 3080), MATH 4710: Theory of Probability, or ECON 3190: Introduction to Statistics and Probability |
| STSCI 3520 | 4 | | | Statistical Computing (cross-listed with BTRY 3520) or CS 1112 or 1110 |
| STSCI 4030 | 3 | | | Applied Linear Statistical Models via Matrices (cross-listed with BTRY 4030) or ECON 3200, Introduction to Econometrics |
| STSCI 4090 | 4 | | | Theory of Statistics (cross-listed as BTRY 4090) or MATH 4720 |
| <i>Three (3) additional courses from among:</i> | | | | |
| BTRY / ILRST 3100 | 4 | | | Statistical Sampling (cross-listed with BTRY / ILRST 3100) |
| STSCI / ORIE 3510 or Math 4740 | 4 | | | Stochastic Processes |
| STSCI 4100 | 4 | | | Multivariate Analysis (cross-listed with BTRY / ILRST 4100) |
| STSCI 4110 | 4 | | | Categorical Data (cross-listed with BTRY 6030 / ILRST 4110) |
| STSCI 4140 | 4 | | | Applied Design (cross-listed with BTRY / ILRST 4140) |
| STSCI 4550 | 4 | | | Applied Time Series Analysis (cross-listed with ILRST 4550, ORIE 5550) |
| ORIE 4740 | 4 | | | Statistical Data Mining (prereq: ORIE 3500, Math 2940) |
| CS 4780 | 4 | | | Machine Learning (prereq: CS 2800 or basic probability theory, and basic knowledge of linear algebra) |
| BTRY 6790 / CS 6782 | 4 | | | Probabilistic Graphical Models |

| | | | | |
|----------------------|--|--|--|-----------------------------|
| Free | | | | (15 credits Arts Electives) |
| Free | | | | |
| Free | | | | |
| Free | | | | |
| Free | | | | |
| Extra Courses | | | | |
| | | | | |
| | | | | |

BACKGROUND INFORMATION FORM

Please fill out completely

Name: _____ Expected Graduation Date:(mon. & yr.) _____

Permanent Mailing Address/Phone # (home):

| | | |
|----------------------|---------------------|---------------------|
| Address Fr/Soph Year | Address Junior Year | Address Senior Year |
| Ph. #: | Ph. #: | Ph. #: |

Citizenship Status: USA Other _____ (if other, please indicate citizenship and
(circle one)

Ethnicity: _____

Double Major? YES NO MAYBE

Other major: _____

STSCI primary major? YES NO MAYBE

External Specialization (ideas):

Career Planning/Interests:

Graduate School Plans:

Research Interests/Activities:

Activities, Related Employment, Awards, Distinctions:
