Information Science, Technology & the Arts Minor Checklist

Updated April 2024

Name:	SID:

MINOR REQUIREMENTS (19 UNITS)

Core Courses (Take 4)

ISTA 100: Great Ideas of the Information Age			☐
ISTA 116: Statistical Foundations for the Info. Age	**Pre-req: MATH 107 or MATH 112**		☐
ISTA 130: Computational Thinking & Doing	**Recommended Pre-req: MATH 112**	*CSC 110 can fulfill requirement*	☐
ISTA 161: Ethics in a Digital World			☐

Upper Division Elective courses (Take 2)

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COMMENTS

IMPORTANT NOTES:
- Students must earn a minimum of a 2.0 (C average) to graduate with this minor.
- ISTA 100, 116 and 161 can be taken in any order and are not required to enroll in Upper Division courses as long as you meet the pre-requisites.
- Students must complete at least 6 units (2 classes) which are Upper Division (300 level or above).
- Students are allowed to use up to 2 courses (typically 6 units) between a major and minor program with departmental approval.

Elective Course Options (Take 2)

Computational Arts

ISTA 301	Computing & the Arts	
ISTA 302	Technology of Sound	
ISTA 303	Creative Coding	**Pre-req: ISTA 130 or CSC 110 or ECE 175 or PHYS 105A**
ISTA 401	Designing Installations	
ISTA 403	Advanced Creative Coding	**Pre-req: ISTA 303**

Human-Computer Interactions

ISTA 329	Introduction to Web Design & Development	
ISTA 330	Advanced Web Design	**Pre-req: ISTA 329 or CSC 337 *AND* ISTA 130 or CSC 110 or ECE 175**
ISTA 352	Images: Past, Present, Future	
ISTA 416	Introduction to Human-Computer Interactions	

Applied Data Science

ISTA 320	Data Visualization	**Pre-req: ISTA 116 or ESOC 214 or DATA 363 or APCV 302, or instructor consent**
ISTA 321	Data Mining	**Pre-req: ISTA 116 or ESOC 214 or DATA 363 or APCV 302, or instructor consent**
ISTA 322	Data Engineering	**Pre-req: ISTA 130 or CSC 110 or ECE 175 or PHYS 105A**
ISTA 331	Principles & Practices of Data Science	**Pre-req: ISTA 131 *AND* ISTA 116**

Classes are subject to change and may be offered in different semesters

Course/Information Options

ISTA 429	Applied Cyberinfrastructure Concepts	*Recommend pre-req: ISTA 131 or CSC 110*
ISTA 431	Data Warehousing & Analytics in the Cloud	
Programming Foundations		
ISTA 350	Programming for Informatics Applications	**Pre-req: ISTA 131 *AND* ISTA 116**
Probability & Inference; Machine Learning; Natural Language Processing		
ISTA 311	Foundations of Information & Inference	**Pre-req: ISTA 130 or CSC 110 or ECE 175 or PHYS 105A *AND* ISTA 116 or ESOC 214 or DATA 363 or APCV 302**
ISTA 335	Introduction to Natural Language Processing	**Pre-req: ISTA 130 or CSC 110 or ECE 175 *AND* ISTA 131 or CSC 120 or instructor consent**
ISTA 410	Bayesian Modeling	**Pre-req: MATH 223, MATH 313, MATH 464 AND ISTA 350 or ISTA 421 or CSC 345 or instructor consent**
ISTA 421	Introduction to Machine Learning	**Pre-req: MATH 129, MATH 313 and CSC 210**
ISTA 450	Artificial Intelligence	**Pre-req: ISTA 350 or CSC 245 or MATH 243 or instructor consent**
ISTA 455	Applied Natural Language Processing	**Pre-req: ISTA 350 or ECE 373 or CSC 335 or CSC 345 or instructor consent**
Virtual Reality & Game Development		
GAME 451	Game Development	**Pre-req: ISTA 350 or CSC 210 or GAME 351**
ISTA 424	Virtual Reality	**Pre-req: ISTA 350 or CSC 210 or GAME 351**
ISTA 425	Algorithms for Games	**Pre-req: ISTA 350 or CSC 210 or GAME 351**
Special Topics		
ISTA 495	Special Topics *(Topic descriptions will be advertised by the iSchool and in the course description)*	