

MS-DS Recommended Plan of Study: Option A

Year One

| Fall Semester | | |
|---------------|--|--------------|
| Course No. | Title | Cr. |
| DTSC 5301 | Data Science as a Field | 1 |
| DTSC 5302 | Ethical Issues in Data Science | 1 |
| DTSC 5303 | Cybersecurity for Data Science | 1 |
| DTSC 5501 | Data Structures and Algorithms | 3 |
| STAT 5000 | Statistical Methods and Applications 1 | 3 |
| | | 9 cr. |

| Spring Semester | | |
|-----------------|--|--------------|
| Course No. | Title | Cr. |
| CSCI 5502 | Data Mining | 3 |
| STAT 5010 | Statistical Methods and Applications 2 | 3 |
| | | 6 cr. |

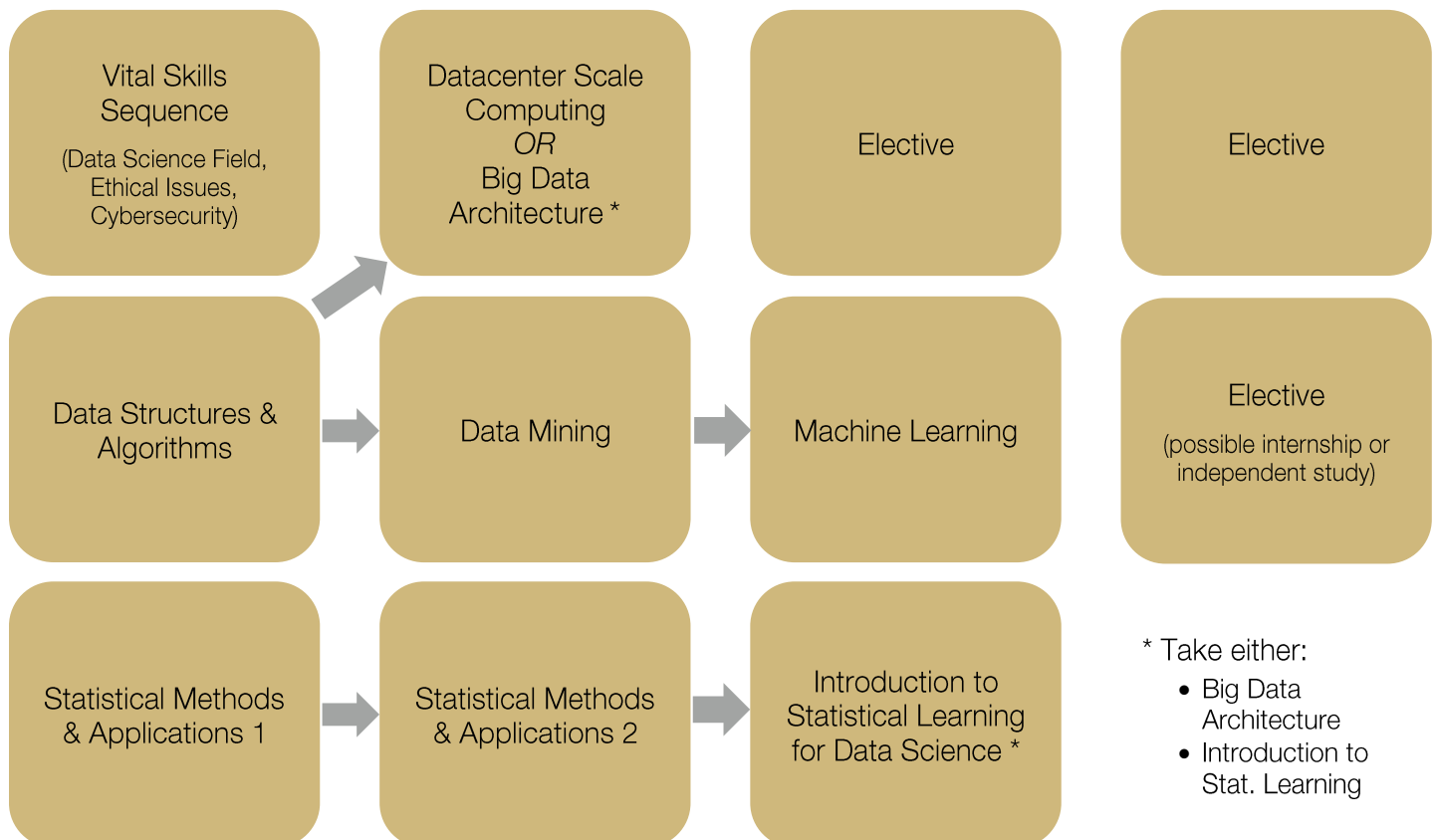
Year Two

| Fall Semester | | |
|---------------|-------------------------------------|--------------|
| Course No. | Title | Cr. |
| — | Elective | 3 |
| CSCI 5622 | Machine Learning | 3 |
| — | Select from Remaining Core Courses* | 3 |
| | | 9 cr. |

| Spring Semester | | |
|-----------------|----------|--------------|
| Course No. | Title | Cr. |
| — | Elective | 3 |
| — | Elective | 3 |
| | | 6 cr. |

* Intro to Statistical Learning (DTSC 5020); Datacenter Scale Computing (CSCI 5253) OR Big Data Architecture (ATLS 5214); Information Visualization (INFO 5602)

Course Flow



- * Take either:
- Big Data Architecture
 - Introduction to Stat. Learning

MS-DS Recommended Plan of Study: Option B

Year One

| Fall Semester | | |
|---------------|--|--------------|
| Course No. | Title | Cr. |
| DTSC 5301 | Data Science as a Field | 1 |
| DTSC 5302 | Ethical Issues in Data Science | 1 |
| DTSC 5303 | Cybersecurity for Data Science | 1 |
| CSCI 5502 | Data Mining | 3 |
| STAT 5000 | Statistical Methods and Applications 1 | 3 |
| | | 9 cr. |

| Spring Semester | | |
|-----------------|--|--------------|
| Course No. | Title | Cr. |
| CSCI 5622 | Machine Learning | 3 |
| STAT 5010 | Statistical Methods and Applications 2 | 3 |
| | | 6 cr. |

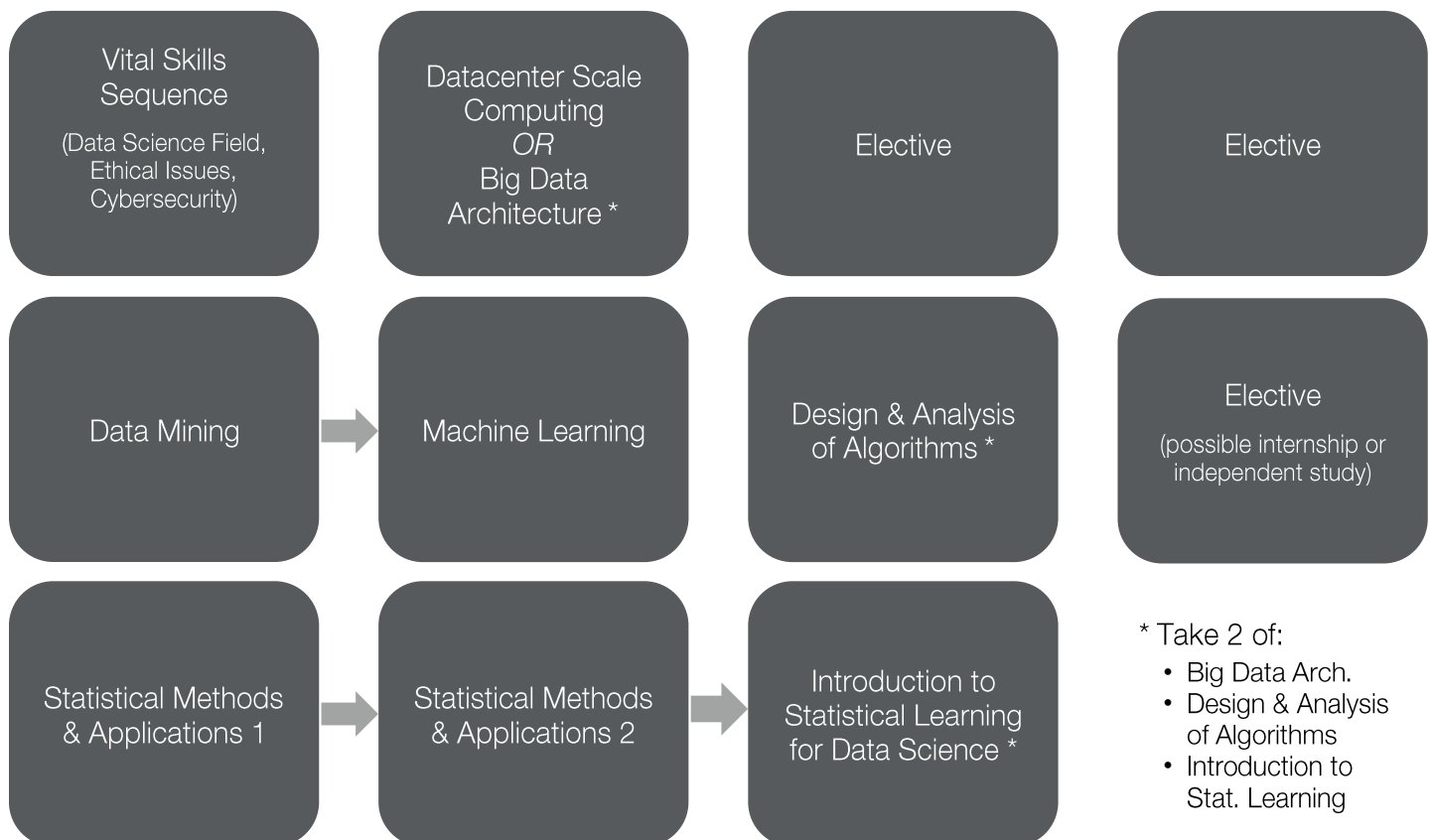
Year Two

| Fall Semester | | |
|---------------|-------------------------------------|--------------|
| Course No. | Title | Cr. |
| — | Elective | 3 |
| — | Select from Remaining Core Courses* | 3 |
| — | Select from Remaining Core Courses* | 3 |
| | | 9 cr. |

| Spring Semester | | |
|-----------------|----------|--------------|
| Course No. | Title | Cr. |
| — | Elective | 3 |
| — | Elective | 3 |
| | | 6 cr. |

* Intro to Statistical Learning (DTSC 5020); Datacenter Scale Computing (CSCI 5253) OR Big Data Architecture (ATLS 5214); Information Visualization (INFO 5602); Design and Analysis of Algorithms (CSCI 5454)

Course Flow



- * Take 2 of:
- Big Data Arch.
 - Design & Analysis of Algorithms
 - Introduction to Stat. Learning