

# Temple CIS Programs

## What Does Temple's CIS Department Offer?

- **Programming Certificate:** students take CIS 1051 (intro/python), CIS 1068 (intro/java), and CIS 2109 Databases.
- **BA/BS in Computer Science (CS):** for students who want to focus on software design/development (with an emphasis on math and computer theory).
- **BA/BS in Information Science and Technology (IST):** for students who want a degree that includes software development, but is broader and more applied and has less math and computer theory. For example, business analysis is required. Elective options include project management & testing.
- **MS in Data Science (MS/DS):** this program combines computer science with math and statistics to explore and manipulate "big data". This degree prepares students for research and/or PhD. This program is for those who have a solid math/statistics background and some programming.
- **MS in Computer Science (MS/CS):** this program requires extensive programming and a solid background in math and computer theory. This program is for those who would like to become an expert software designer/developer, with a deep understanding of systems programming.
- **MS in Information Systems and Technology (MS/IST):** Graduate courses focus on applications of computer systems. Students need a background in programming and database management. They also must enter with an understanding of computer systems (operating systems, networking).
- **Professional Masters in Cyber Security (Security PSM):** this program covers security topics in computer networks and operating systems, ethics and laws affecting computer crime. Graduates of this program can obtain jobs in the computer security industry. Students need a background in programming and they must have an understanding of computer systems (operating systems, networks).

## How Many Courses? How Long Will It Take? What is the Cost?

- The total credits required for each of Temple's CIS degree options is shown in a comparison grid in the last page of this document.
- The duration of the degree depends on how many courses you will take each semester and the pre-req relationships between courses. The flow charts in this document show the pre-req structure for graduate programs. For undergraduate degree flow charts, click [here](#) or Google "Temple CST Flow Charts".
- For current **Temple tuition** rates, visit <http://temple.edu> and enter "tuition" in the search box. Our rates are listed under the College of Science and Technology. The fees depend on whether you are taking undergraduate or graduate courses and whether or not you are a Pennsylvania resident.

## First Steps?

- If you have no background in CIS, take an **introductory course in programming in java** (which is needed by all of our degree options). Do not make life changing decisions until you are sure that CIS is right for you. You can take it at Temple or at any other accredited college or university.
- If you wish to **take undergraduate prerequisite courses at Temple** as a non-matriculated student, contact Temple's Office of Continuing Studies (215 204-2500). They will verify your math background (possibly administer a math placement test), then register you. *Please note that CIS 1051 Intro Python, CIS 1068 Intro Java, CIS 2109 Databases, and CIS 2168 Data Structures are the only undergraduate CIS courses that Temple offers at night.*

BA/BS CS, MS CS/DS	BA/BS IST	Security PSM	Prog. Certif.	Temple	C. C. of Philadelphia	Montgomery County C. C.	Bucks County C. C.
x				Math 1041 Calc I	<i>Math 171 Calc I</i>	Math 190 Calc I	Nothing equates
x				Math 1042 Calc II	<i>Math 172 Calc II</i>	Math 201 Calc II	Nothing equates
x	x			CIS 1166 Math Concepts I **	<i>Math 163 Discrete Math</i>	Math 125 Discrete Math	Math 121 Discrete Math
			x	CIS 1051 Intro/Python*	<i>CSCI 112 Java II</i>	CIS 111B	CIS 122 (CS II)
<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>CIS 1068 Intro/Java**</b>	<b><i>CSCI 112 Java II</i></b>	<b>CIS 111B</b>	<b>CIS 122 (CS II)</b>
x	x	x		CIS 2168 Data Structures	<i>CSCI 211 Data Structures</i>	CIS 112 Data Structures	CIS 213 Data Structures
	x		x	CIS 2109 Databases	<i>CSCI 205 Databases</i>	CIS 245 Databases**	CIS 215 Databases

## How and When Should I Apply?

- **Programming Certificate:** Call Temple's Office of Continuing Studies (215 205-2500) and let them know you want to pursue the Programming Certificate.
- **BA/BS degrees in CS or IST:** If you have never taken any college coursework, you can apply right away by visiting temple.edu/admissions. Otherwise, take at least one programming course (unless you already have programming experience), then visit temple.edu/admissions and apply as a transfer student. If you already have an undergraduate degree, you will only need to take the courses that are required by the major (see course grid on last page).
- **MS Degrees** (Data Science, Computer Science, Information Systems and Technology) and **Security PSM:** Check the flow charts in this document. Once you have completed and/or are registered in all the undergraduate pre-req courses, you are eligible to apply. To learn how to apply, visit temple.edu/cis and click on Admissions – Graduate.

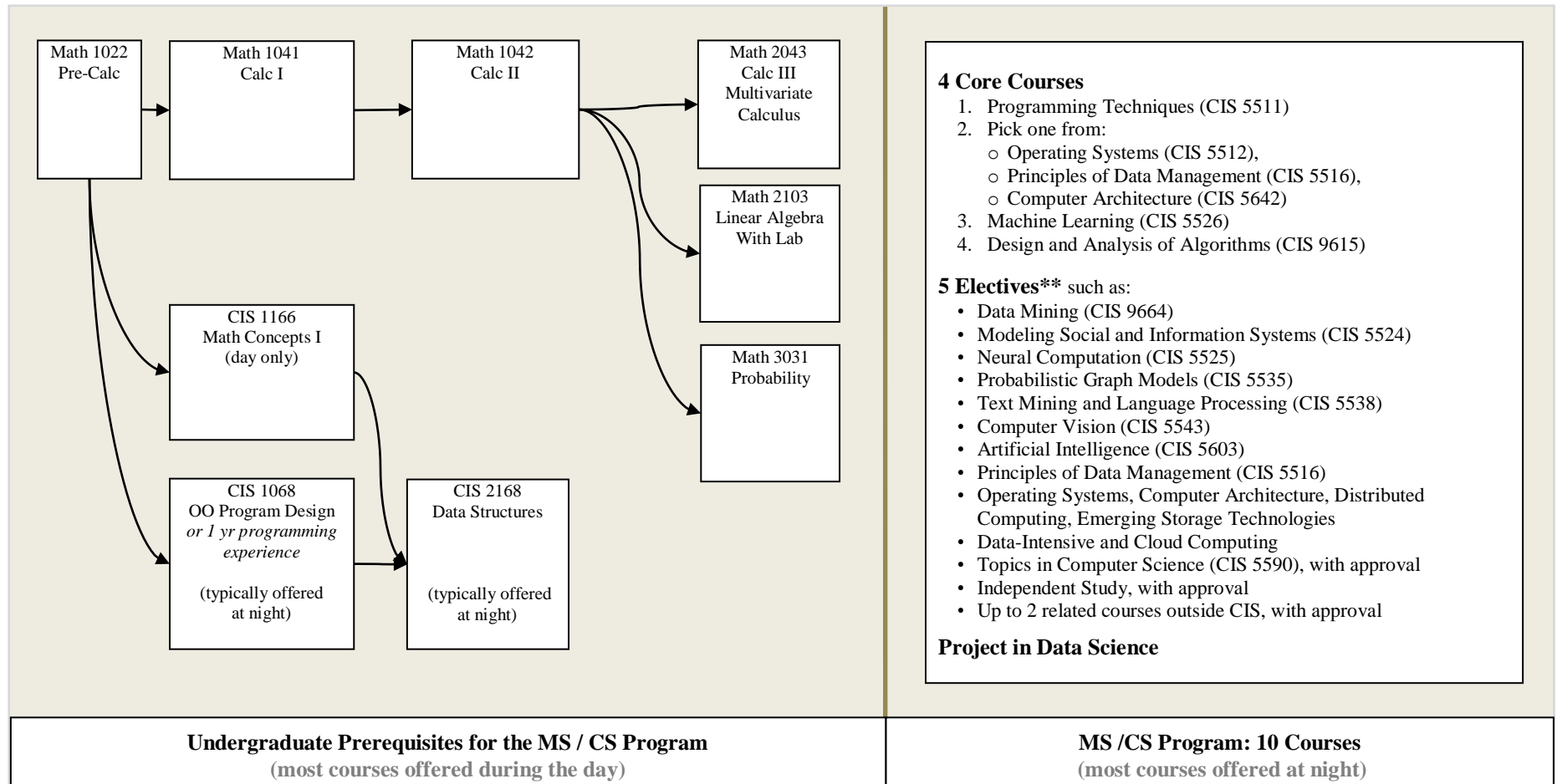
## What if I have additional questions?

- For questions about Temple's Programming Certificate and/or taking prerequisite courses at Temple, contact the [Continuing Studies Office](#) at 215 204-2500.
- For questions about the graduate application process, read the admissions information [here](#) (or visit temple.edu/cis - Admissions). If you still have questions, contact [Julie.Skrocki@temple.edu](mailto:Julie.Skrocki@temple.edu)
- For questions about graduate course requirements, read the program information from [here](#) (or visit temple.edu/cis - Academics). If you still have questions, contact the CIS Graduate Adviser, [sallyk@temple.edu](mailto:sallyk@temple.edu)
- For course descriptions, Google “Temple Course Descriptions” (should link [here](#)).
- For course offerings, Google “Temple Course Schedule” (should link [here](#)).
- For Temple's Academic Calendar (registration and other important advising dates), Google “Temple Academic Calendar” (should link [here](#)).

# MS in Data Science Program Requirements with Pre-Requisites (NEW PROGRAM, unofficial document, 2016-2017)

For official program requirements and information about applying, visit <http://www.temple.edu/cis>

Before applying, you can take UG prerequisite courses through Temple's Office of Continuing Studies (215 204-2500) or you may take equivalent courses at another accredited college (compare their course descriptions with ours). *Please note that Temple does not offer Upper level UG prerequisite courses at night. You are eligible to apply during your last semester of taking undergraduate pre-reqs. (This is a new policy, not yet reflected in Temple's graduate bulletin.)*

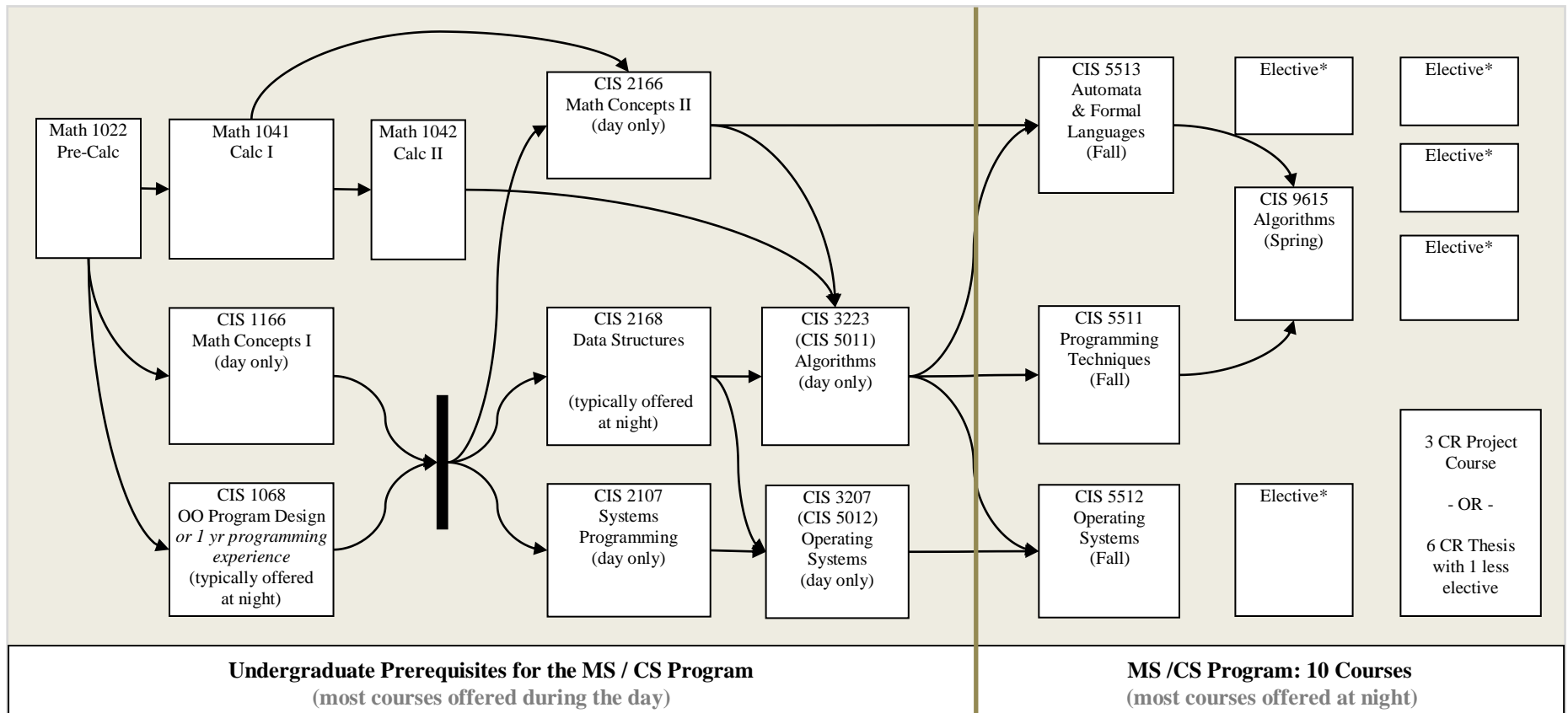


\*\* To see the rules regarding MS Data Science elective selection, visit [www.temple.edu/cis](http://www.temple.edu/cis)

# MS / CS Program Requirements with Pre-Requisites (unofficial document, 2016-2017)

For official program requirements and information about applying, visit <http://www.temple.edu/cis>

Before applying, you can take UG prerequisite courses through Temple's Office of Continuing Studies (215 204-2500) or you may take equivalent courses at another accredited college (compare their course descriptions with ours). *Please note that Temple does not offer Upper level UG prerequisite courses at night. You are eligible to apply during your last semester of taking undergraduate pre-reqs. (This is a new policy, not yet reflected in Temple's graduate bulletin.)*



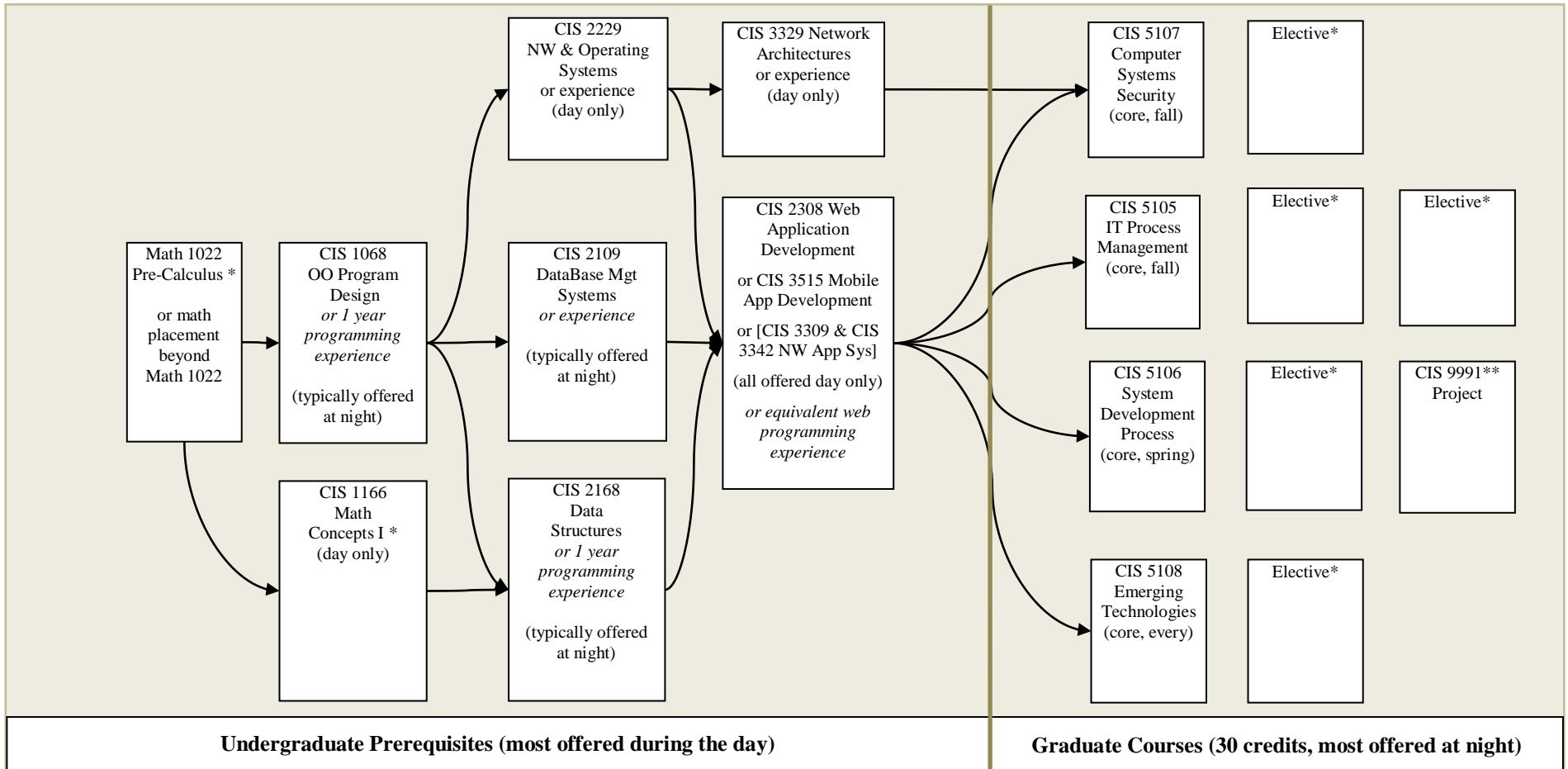
**\* MS/CS electives include courses such as:**

- databases, mobile application development, and networking.
- (if you have advanced math and statistics) robotics, artificial intelligence, vision recognition, and data mining.
- advanced networking topics.

# MS/IST Program Requirements with Pre-Requisites (unofficial document, 2016-2017)

For official program requirements and information about applying, visit <http://www.temple.edu/cis>

Before applying, you can take UG prerequisite courses through Temple's Office of Continuing Studies (215 204-2500) or you may take equivalent courses at another accredited college (compare their course descriptions with ours). *Please note that Temple does not offer Upper level UG prerequisite courses at night. You are eligible to apply during your last semester of taking undergraduate pre-reqs. (This is a new policy, not yet reflected in Temple's graduate bulletin.)*

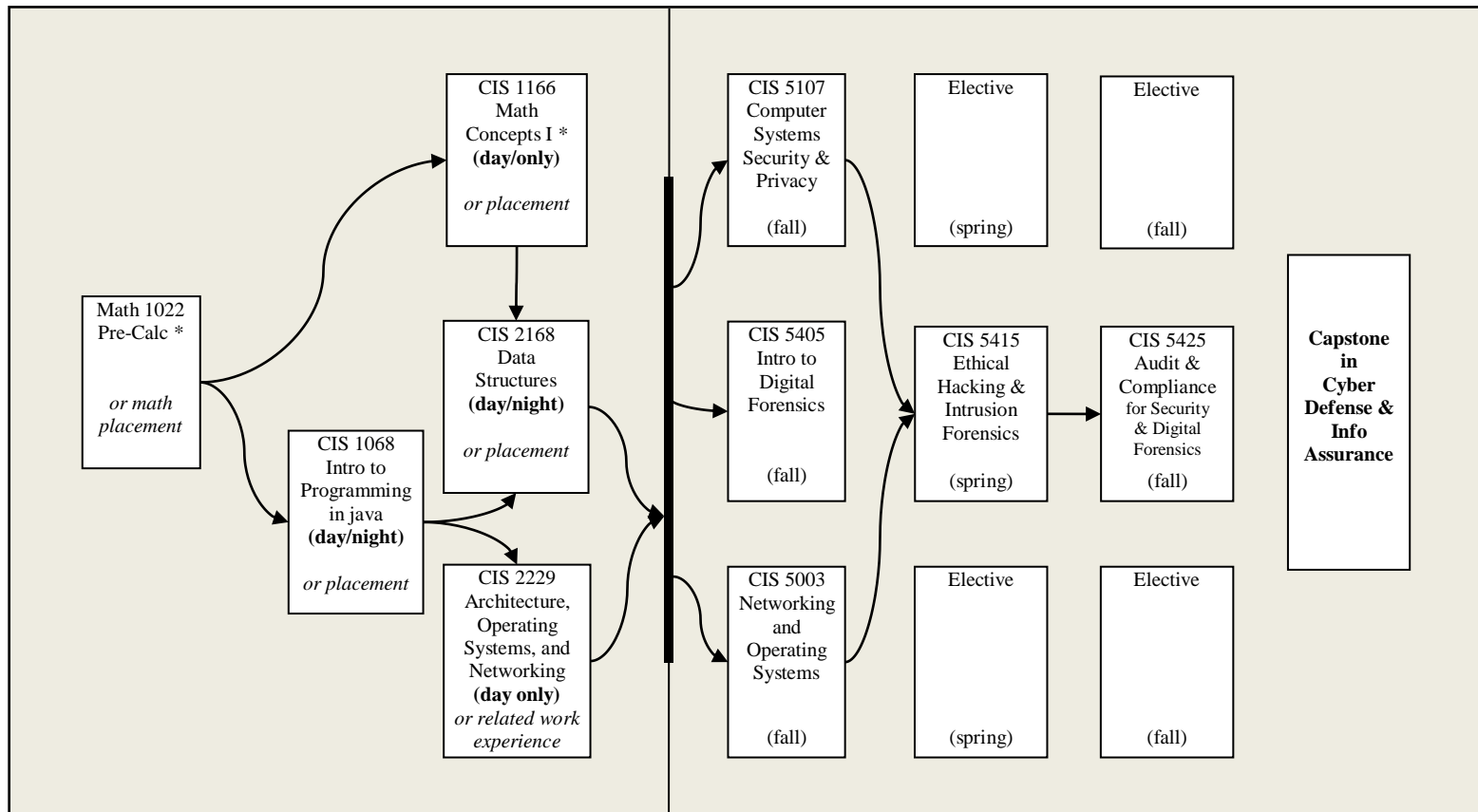


\* You only need to take the math and theory courses (Math 1022, and CIS 1166) if you take the pre-req courses at Temple (due to Temple's pre-req structure).

# Professional Masters in Cyber Defense and Information Assurance (NEW PROGRAM unofficial document, 2016-2017)

For official program requirements and information about applying, visit <http://www.temple.edu/cis/graduate>

Before applying, you can take UG prerequisite courses through Temple's Office of Continuing Studies (215 204-2500) or you may take equivalent courses at another accredited college (compare their course descriptions with ours). *Please note that Temple does not offer Upper level UG prerequisite courses at night. You are eligible to apply during your last semester of taking undergraduate pre-reqs.*



\* You only need to take (or place beyond) Math 1022 Pre-calculus if you will take CIS 1068 and/or CIS 1166 at Temple.

\* You only need to take CIS 1166 (or Discrete Math) if you will take CIS 2168 at Temple.

