The image contains a flowchart detailing the requirements for graduation in the BS - Mathematics: Teacher Certification program. The chart outlines courses for Freshman, Sophomore, Junior, and Senior years, with specific requirements and electives. The chart is organized into a timeline from Fall semester of the Freshman year to Spring semester of the Senior year.

### Freshman Year
- **Fall Semester:**
  - CS 1428 (F,S,Su) Foundations of Computer Science I
  - MATH 2471 (F,S,Su) Calculus I

- **Spring Semester:**
  - MATH 2472 (F,S,Su) Calculus II
  - CS 1310 (F,S,Su) Foundations of Computer Science I

### Sophomore Year
- **Fall Semester:**
  - MATH 3305 (F,S,Su) Intro to Probability & Statistics

- **Spring Semester:**
  - MATH 3315 (F,S,Su) Modern Geometry
  - MATH 3377 (F,S,Su) Linear Algebra

### Junior Year
- **Fall Semester:**
  - MATH 3330 (F,S,Su) Intro to Advanced Math
  - MATH 3305 (F,S,Su) Intro to Probability & Statistics

- **Spring Semester:**
  - MATH 4311 (F,Su) History of Mathematics
  - MATH 4304 (S,Su) Math Understandings

### Senior Year
- **Fall Semester:**
  - ENG 23XX or ENG 3303

- **Spring Semester:**
  - Minor and/or elective courses (as needed, see advisor)

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### Additional Notes
- **Core Courses:**
  - US 1100
  - ENG 1310
  - HIS 1310
  - ANTH 1312

- **Electives:**
  - MATH electives
  - Additional WI courses: MATH 4311

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**Key:***
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate corequisites.
- Arrows with dash lines are recommended prerequisites.
- Courses taught in specific semesters are indicated with the following codes:
  - F-Fall
  - S-Spring
  - Su-Summer Session I or II

**Additional WI courses:**
- MATH 4311
- Additional WI courses: MATH 3303

This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science and Engineering Undergraduate Advising Center for advising.

**Note:** In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.