

**Robotics (21009)**

**Application for Recognition as a State-Approved Advanced Computer Science Course**

**Submission Deadline: Dec. 1st**

**School District:**

**Instructions:** Complete the sections below and send this application to Melinda Johnson ([Melinda.Johnson@state.sd.us](mailto:Melinda.Johnson@state.sd.us)) along with a course syllabus and any additional supporting material.

**Key Criteria Rubric**

|  |  |
| --- | --- |
| **Criteria** | **Explain how the Robotics (21009) course meets the correlating criteria.** |
| **Instruction in all the 9-12 grade science & engineering practices**  ([Science and Engineering Practices and Crosscutting Concepts Frequency Tables](https://doe.sd.gov/contentstandards/documents/ApxB-SEPc.pdf))   * Asking questions and defining problems * Developing and using models * Planning and carrying out investigations * Analyzing and interpreting data * Using mathematical and computational thinking * Constructing explanations and designing solutions * Engaging in argument from evidence * Obtaining, evaluating, and communicating information |  |
| **Instruction in at least four 9-12 grade science cross cutting concepts**  ([Science and Engineering Practices and Crosscutting Concepts Frequency Tables](https://doe.sd.gov/contentstandards/documents/ApxB-SEPc.pdf))   * Patterns * Cause and Effect * Scale, Proportion, and Quantity * Systems and System Models * Energy and Matter * Structure and Function * Stability and Change |  |
| **Meeting the definition of “lab course” as listed below**  ([ARSD 24:43:01:01](http://sdlegislature.gov/Rules/DisplayRule.aspx?Rule=24:43:01:01))  Laboratory class: a course providing opportunities for students to interact directly with the material world, or with data drawn from the material world, using tools that are not found in a library, media center, study hall, or classroom, and in which students use safe and appropriate laboratory techniques, as well as implement data collection techniques, models, and theories of science. |  |

**Curriculum and Assessment Template**

|  |  |
| --- | --- |
| **Standard** | **Curriculum Plan (Be specific about connections to science content standards.)** |
|  |  |
|  |  |

**Final Assessment Plan**

Check at least one of the following types of assessments and write a description explaining the final assessment plan.

**End-of-Course Exams**

**Authentic Assessment**

**Project-Based Learning**

**Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Description Explaining the Final Assessment Plan:**