

**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) along with a course syllabus and any additional supporting material.

**Key Criteria Rubric**

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| --- | --- |
| **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
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| **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
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| **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**

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

**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:**