

## CTE Course Description and Standards Crosswalk

### Course Information

|  |                         |
|--|-------------------------|
| Course Name  | Intro to Animal Science |
| Course Number  | 81050                   |
| Number of High School Credits  | .5                      |
| Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.) | Animal Science          |
| Date of district Course Revision   | September 2013          |

### Career & Technical Student Organization (CTSO)

|                                |     |
|--------------------------------|-----|
| CTSO embedded in this sequence | FFA |
|--------------------------------|-----|

### Occupational Standards

|   |                               |
|---|-------------------------------|
| Source of Occupational Standards        | The National FFA Organization |
| Names/Numbers of Occupational Standards | FFA Animal Science (AS)       |

### Registration Information

|   |  |
|---|--|
| Course Description (brief paragraph – as shown in your student handbook or course list) | Introduction to Animal Science is a survey of the knowledge and skills necessary for animal care including traditional species (such as horses) and non-traditional species (such as llamas). Students who want to become veterinarians, vet technicians, animal trainers, or interested in farm production would benefit from this class. Recommended Courses: Introduction to Agriculture and Natural Resources. |
| Instructional Topic Headings (please separate each heading by a semi-colon)             | History of Animal Husbandry; Safety; Animal Anatomy, Physiology and Nutrition; Animal Health; Genetics, Breeding and Reproduction; Small Animal Care and Management; Dairy and Livestock Management; Horse Management; Careers; Career Technical Student Organization  |

### Summative Assessments and Standards

|                                   |     |
|-----------------------------------|-----|
| Technical Skills Assessment (TSA) | No  |
| Course addresses:                 |     |
| New Alaska ELA and Math Standards | Yes |
| Alaska Cultural Standards         | Yes |
| All Aspects of Industry (AAI)     | Yes |
| Core Technical Standards          | Yes |
| Employability Standards           | Yes |

### Employability Standards

|                                   |                 |
|-----------------------------------|-----------------|
| Source of Employability Standards | State of Alaska |
|-----------------------------------|-----------------|

### Tech Prep

|   |    |
|---|----|
| Current Tech Prep Articulation Agreement? (Y/N) | No |
| Date of Current Agreement                       |    |
| Postsecondary Institution Name                  |    |

**DISTRICT NAME: Mat-Su Borough School District**

|                             |  |
|-----------------------------|--|
| Postsecondary Course Name   |  |
| Postsecondary Course Number |  |
| # of Postsecondary Credits  |  |

### Additional CTE Course Information

| Author  |                                 |
|---|---------------------------------|
| Course developed by   | Don Berberich                   |
| Course adapted from   | Introduction to Animal Sciences |
| Date of previous course revision                                    | May 2006                        |
| Course Delivery Model   |                                 |
| Is the course brokered through another institution or agency? (Y/N) | N                               |

### Standards Alignment

| Student Performance Standards<br>(Learner Outcomes or Knowledge & Skill Statements)                    | Specific Occupational Skills Standard | Common Technical Core Standards | New Alaska ENG/LA Standards  | New Alaska Math Standards | Alaska Cultural Standards | Employability/ Career Readiness Standards | All Aspects of Industry/ Systems | Assessment  |
|--|---------------------------------------|---------------------------------|--|---------------------------|---------------------------|---|----------------------------------|---|
| Understand how animal husbandry has influenced society and how this interaction has changed over time. | AS.01                                 | AG-ANI.1 & 2                    | SL.9-10.4<br>SL.9-10.5<br>SL.9-10.6<br>RH.9-10.4<br>RI.11-12-10<br>W.9-10.9.a-b<br>WHST.9-10.2.a-f | S-IC.6                    | A3, A4, B2, B4            | A2, A5                                    | Community Planning               | Prepared Public Speaking Career Development Event – FFA |
| Demonstrate an understanding of safe behavior around animals and animal equipment.                     | AS.06<br>AS.07                        | AG3                             | RI.11-12.1<br>RI. 11-12.3  | S-MD.6&7                  | A5, B2, B4                | A1, A5, A6                                | Health & Safety                  | Career Development Event – FFA                          |

**DISTRICT NAME: Mat-Su Borough School District**

| <b>Student Performance Standards<br/>(Learner Outcomes or Knowledge &amp; Skill<br/>Statements)</b> | <b>Specific<br/>Occupational<br/>Skills Standard</b> | <b>Common<br/>Technical Core<br/>Standards</b> | <b>New<br/>Alaska ENG/LA<br/>Standards</b> | <b>New<br/>Alaska<br/>Math<br/>Standards</b>                         | <b>Alaska<br/>Cultural<br/>Standards</b> | <b>Employability/<br/>Career Readiness<br/>Standards</b> | <b>All Aspects of<br/>Industry/ Systems</b> | <b>Assessment</b>                   |
|---|--|--|--|--|--|--|---|-------------------------------------|
|   |  |  | SL.9-10.5                                  |  |  |  |   |                                     |
| Determine the nutritional requirements of animals and learn how to satisfy those requirements.      | AS.03<br>AS.04                                       | AG.ANI.3<br>&5                                 | RST.11-12.9<br>&.10<br>F.LE.3&.5           | N-Q.1A-SSE.4<br>A-CED.1<br>A-CED.4<br>S-IC.6                         | A5, B2                                   | A2, A5   | Technical Skills<br>Planning                | Career Development<br>Event – FFA   |
| Determine how to best maintain animal health.   | AS.03  | AG.ANI. 2,<br>3, 5 &7                          | RI.11-12.1<br>RI.11-12.3<br>W.9-10.4       | N-Q.1<br>N-Q.2   | A5, B2                                   | A2, A5   | Technical Skills                            | Career Development<br>Event – FFA   |
| Determine the role of genetics, breeding and reproduction in modern animal.                         | AS.04<br>AS.05                                       | AG.ANI.4                                       | RST.11-12.9                                | S-ID.4<br>S-ID.7<br>S-ID.9<br>S-IC.1, 4<br>&6<br>S-CP.2&.9<br>S-MD.6 | A4, A5,<br>A7                            | A2, A5   | Planning                                    | Career Development<br>Event – FFA   |
| Describe the types, uses, care, and management of small animals.                                    | AS.01<br>AS.02<br>AS.03                              | AG.ANI.1<br>& 2                                | SL.9-10.4<br>SL.9-10.5<br>SL.9-10.6        | N-Q.1<br>N-Q.2<br>N-Q.3  | A4, A5,<br>A7                            | A2, A5   | Planning<br>Technical Skills                | Career Development<br>Event – FFA   |
| Determine the history, types, uses, care, and management of dairy and livestock.                    | AS.01<br>AS.02<br>AS.03                              | AG.ANI.1<br>& 2                                | RH.9-10.4<br>SL.9-10.5                     | N-Q.1<br>N-Q.2<br>N-Q.3  | A4, A5,<br>A7                            | A2, A5   | Planning                                    | Career Development<br>Event – FFA   |
| Determine the role of horses in our society and learn how to care for and manage them.              | AS.01<br>AS.02<br>AS.03                              | AG.ANI.1<br>& 7                                | RI.11-12.1<br>RI.11-                       | N-Q.1<br>N-Q.2<br>N-Q.3  | A4, A5,<br>A7                            | A2, A5   | Planning<br>Technical Skills                | Horse Judging<br>Career Development |

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|---|--|--|---|--|--|--|---|---|
|   |  |  | 12.2  |  |  |  |   | Event - FFA   |
| Explore career opportunities in animal science.   | AS.08  | AG.5   | SL.9-10.5   | S-IC.6<br>S-MD.6&7                           | A1, A5,<br>B2, B4                        | B1-5   | Management<br>Labor<br>Work Habits          | Job Interview<br>Career<br>Development<br>Event - FFA                 |
| Participate in Career Technical Student Organization (e.g., FFA)                                    |  | AG.5   | SL.9-10.4<br>SL.9-10.5<br>SL.9-10.6<br>SL.11-<br>12.4 | S-MD.6&7                                     | A1, A5,<br>B2, B4                        | B1-5   | Management<br>Labor<br>Work Habits          | SAE, 4-H<br>record book<br>and FFA<br>Career<br>Development<br>Events |

**Instructional Resources**

**List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)**

Agriscience fundamentals and Applications, 3<sup>rd</sup> edition. Elmer Cooper, L. Burton, 2002 Delmar.  
Small Animal Care and Management – Dean Warren 2<sup>nd</sup> Edition

National FFA site: [www.FFA.org](http://www.FFA.org)

Penn State Animal Science PowerPoint Presentations <http://animalscience.psu.edu/files/ppt>