

**Career-Technical Credit Transfer (CT)<sup>2</sup>**  
**Animal Science and Management Career-Technical Assurance Guide (CTAG)**  
**February 6, 2017**

The following course, indicated by a Career-Technical Articulation Number (CTAN), is eligible for post-secondary credit and transfer among Ohio's public secondary career-technical institutions and state institutions of higher education. The SCTAI alignment document with ODE competencies and post-secondary learning outcomes can be found on the ODHE website at <https://www.ohiohighered.org/transfer/ct2/ctags>.

<b>CTASM001 - Introduction to Animal Science</b>	<b>Credits: 3 Semester Hours</b>
<p><b>Advising Notes:</b> In order to access post-secondary college credit for this CTAN, the student must:</p> <ul style="list-style-type: none"> <li>• Matriculate to an institution of higher education, with an approved or comparable program, within 3 years after completing the approved secondary program</li> <li>• Successfully complete <u>ODE secondary course <b>Animal Science and Technology (010910)</b></u> and earn a qualifying score of <b>50 or higher</b> on the corresponding End of Course examination</li> </ul>	<p>Secondary institutions must have pathway approval from the Ohio Department of Education. Certificate of Affirmation assurances are now incorporated into the CTE-26 application process.</p>

This CTAN identifies the learning outcomes that are equivalent or common in introductory technical courses. In order for students to receive credit under these agreements, the career-technical programs and the state institutions of higher education must document that their course/program content matches the learning outcomes in the CTAN.

**Requirements and Credit Conditions:**

1. The receiving institution must have a comparable program, major, or course that has been approved through submission to the Ohio Department of Higher Education (CT)<sup>2</sup> approval process for the CTAN listed in this document.
2. Credits apply to courses in the specified technical area at Ohio's public institutions of higher education, if the institution offers courses in the specific technical area. In the absence of an equivalent course, and when the institution offers the technical program, the receiving institution will guarantee to grant and apply an equivalent credit value of the Career-Technical Articulation Number (CTAN) toward the technical requirements of the specific degree/certificate program.
3. The applicant must provide proof to the receiving institution that she/he completed a course that has been approved through the (CT)<sup>2</sup> approval process and that she/he holds the appropriate credential or has passed the end-of-course assessment(s).
4. A career-technical student seeking credit under the terms of this CTAG must apply and be accepted to the college within three years of completing a career-technical education program.
5. A career-technical student who meets all eligibility criteria will receive the credit hour value for the comparable course(s) as offered at the receiving state institution of higher education.
6. The admission requirements of individual institutions and/or programs are unaffected by the implementation of (CT)<sup>2</sup> outcomes.
7. The transfer of credit, through this CTAG, will not exempt a student from the residency requirements at the receiving institution.

Secondary Career-Technical students must complete the Animal Science and Management Pathway to be eligible for credit under this CTAG. This pathway is outlined in the Ohio Department of Education's Agriculture and Environmental Systems Career Field Technical Content Standards.

**CTASM001 - Introduction to Animal Science**

**Credits: 3 Semester Hours**

**General Course Description:** An introductory course in animal sciences designed to provide students with a basic understanding of the biological principles and production practices used in animal production. Students will gain a basic understanding of anatomy, genetics, reproduction, nutrition, and behavior as they apply to domesticated animals. Students will also gain an appreciation for intensive and extensive production environments, resulting food and fiber products, and be familiar with the social issues such as animal welfare and environmental impacts.

**Credits:** 3 Semester Hours

**Learning Outcomes:**

1. Understand historical trends associated with size and scale of animal production, marketing systems and their economic impact on the U.S. and global economy
2. \* Recognize general equipment and understand general terminology used in the animal industry
3. \* Identify common and alternate species and breeds used for food and fiber production and/or companionship and methods of identification
4. \* Understand housing, animal handling, behavior, and common health & disease issues of various animal species
5. Understand basic skeletal structure and growth patterns as they relate to the form and function of animals
6. \* Understand basic principles and concepts of genetics and its application in animal selection
7. \* Understand the basic differences in anatomy, physiology, and cycles associated with the reproductive systems among animal species
8. \* Understand the basic differences in: a) anatomy and physiology of digestive systems, b) nutrient categories, requirements, and c) feedstuffs
9. Understand the nutritional, social, and economic values associated with food, fiber, and by-products of the animal industries
10. Understand the, social, recreational and economic impact of the companion animal industry
11. \* Recognize legal and current social issues associated with animal production

***\*Asterisk Indicates Essential Learning Outcomes***

**Animal Science and Management Panel Participants  
2013-2015**

Dr. Henry Zerby  
Mike Amstutz  
Randy LaMarr

The Ohio State University  
The Ohio State University, ATI Campus  
Wright State University, Lake Campus

SCTAI Panel Lead  
SCTAI Panel  
SCTAI Panel

Kellie Beiser  
Tim Spoerl  
Dan Linden  
Kristen Guthrie  
Shannon Thome

Butler Tech – Edgewood High School  
Butler Tech Natural Science Center  
The Ohio State University, ATI  
Ridgedale High School  
Wellington High School

Item Writer  
Item Writer  
Item Writer  
Item Writer  
Item Writer

Cyndi Brill  
Lauren Massie  
Dr. James Austin

Ohio Department of Education  
Ohio Department of Education  
The Center for Education and Training  
for Employment at OSU

Program Specialist  
Assistant Director  
Assessment Services Director

E. Craig Wiget  
Anne Skuce  
Misty McKee

Ohio Department of Higher Education  
Ohio Department of Higher Education  
Ohio Department of Higher Education

Special Coach  
Senior Associate Director, SCTAI  
Assistant Director, SCTAI