

## AVMA COE ACCREDITATION SELF STUDY 2021

APPENDIX



## EXECUTIVE SUMMARY

Table A. Major Changes Since October 2014 Site Visit

|  | FY 2014 | FY 2021 | $\begin{gathered} \% \\ \text { Change } \end{gathered}$ | Notes |
| :---: | :---: | :---: | :---: | :---: |
| Revenue: |  |  |  |  |
| State Appropriations | 18,155,269 | 17,494,212 | -3.64\% | State appropriation for FY2022 is \$18,154,397 |
| Tuition (DVM) Received | 10,035.658 | 14,456,653 | 44.05\% |  |
| Gifts \& Endowment Income | 1,244,067 | 4,026,868 | 123.21\% |  |
| Sponsored Program (only) | 6,482,411 | 5,369,156 | -17.17\% | The FY 2021 figure does not include new NIH U01 grant ( $\$ 3.37 \mathrm{M}$ ) and GOMESA (Gulf Aquatic Health) grant (\$2.2 M). |
| Diagnostic Lab System | 1,788,832 | 3,376,631 | 88.76\% |  |
| Total College Revenue | 51,819,126 | 63,483,898 | 22.51\% |  |
| Expenditures: |  |  |  |  |
| Instruction/Acad Supp/Student | 10,920,103 | 14,527,650 | 33.04\% |  |
| Teaching Hospital (AHC) | 7,026,499 | 13,631,083 | 94\% |  |
| Diagnostic Lab System | 8,409,147 | 11,103,016 | 32.03\% |  |
| Total Research (Extram+State) | 12,085,937 | 16,318,111 | 35.02\% |  |
| Extension \& Public Service | 856,079 | 441,625 | -48.41\% |  |
| Other Metrics: |  |  |  |  |
| Applications, In-State | 92 | 115 | 25\% |  |
| Application, Non-Resident | 896 | 1123 | 25\% |  |
| Number of DVM Students | 328 | 400 | 22\% |  |
| Caseload (AHC, AERC, VSC, Shelter Program) | 29,103 | 30,738 | 5.6\% |  |
| Number of Farm (site) Calls | 1,295 | 798 | -38\% |  |
| Number of Full-time Faculty | 110 | 121 | 10\% |  |
| Number of Board-Certified Faculty | 56 | 64 | 14\% |  |
| Number of Interns/Residents | 34 | 41 | 20\% |  |
| Number of Graduate Students | 74 | 64 | -13\% |  |
| Five-year NAVLE pass rate | 97.2\% | 98\% | 0.8\% |  |
| Three-year average unique peerreviewed publications | 104 | 138 | 33\% |  |



APPENDIX STANDARD 1
Organization

## APPENDIX STANDARD 1: Organization




## College Cabinet and Major Committees*

Academic Standards and Professional Ethics Committee: Considers student appeals for grades and dismissal from the professional program. Advisory to dean. Four faculty members, one elected from each academic department and one at-large elected by the Faculty Organization, serve three-year terms. Members may be re-elected to a second term.

Admissions Committee: Selects students for admission to DVM program. Establishes criteria for the selection of prospective students. Conducts application evaluations and interviews of applicants. The committee ( 14 members) consists of elected and appointed faculty from each academic department. Members serve three-year terms and may be re-elected or reappointed to a second term.

Animal Health Center Board: The hospital board meets monthly to address proposals, suggestions, and concerns submitted by service chiefs, faculty, staff, students, clients, or referring veterinarians related to the small and large animal hospitals, patient care, and client services. Members include the associate dean for administration, assistant dean for clinical services/hospital director, head of the department of clinical sciences, head of the department of pathobiology and population medicine, two clinical faculty members selected by the faculty, and a clinical staff member selected by the staff. Faculty and staff serve for three years and are eligible for reappointment.

Biosafety and Biosecurity Committee: Committee provides oversight necessary for a safe and secure environment for patients, the public, faculty, staff, and students. Members serve indefinite terms, are appointed by dean, and represent various college jurisdictions. Chaired by assistant dean for clinical services/AHC director. Members are faculty from small animal, equine, and food animal services, CVM off-campus sites, diagnostic laboratories, laboratory animal medicine, and staff from the teaching laboratories.

Cabinet: Principal administrative body of the CVM. Members advise dean on matters included in the mission statement and on operations of the College. Members also establish and implement policies and communicate between faculty and staff administration. Members are the associate dean for administration, associate dean for academic affairs, associate dean for research and graduate studies, assistant dean for clinical services/AHC director, heads of the three academic departments, director of the diagnostic laboratory system, director of admissions, director of the veterinary medical technology program, director of enhanced clinical education, chair of the CVM Diversity and Inclusion Committee, chair of the Faculty Organization, and fiscal officer. Indefinite term lengths served based on appointment.

Curriculum Committee: Provides forum and serves as oversight body to assure quality of current curriculum and future curricular changes. Two faculty members are elected from each of three academic departments. One student is elected (by students) from Phase 1 and two students are elected from Phase 2. Terms for faculty are four years. No faculty member may serve more than two consecutive terms but is eligible to stand for election after being off the committee for a year. Students serve one-year terms but are eligible for re-election.

Disaster and Emergency Response Committee: Serves the College by managing the CVM's safety plan and the state of Mississippi by providing veterinary emergency preparedness planning, training, and services. Emergency preparedness activities focus on disasters that threaten the health and well- being of animals or require the services of veterinarians trained in public health. The chair is appointed by the dean and serves a two-year term (eligible for reappointment). The secretary is selected by committee members and serves a two-year term.

Diversity and Inclusion Committee: The committee is advisory to the dean and works to create and sustain a welcoming, supportive, and inclusive College climate for all faculty, staff, students, and visitors. It assists in the recruitment of students from underrepresented populations, the recruitment and retention of under-represented populations into faculty, staff, and leadership positions, and the development of outreach programs for Mississippi communities that are under-represented in veterinary medicine. The chair serves a two-year term and on the CVM Deans Cabinet. Members serve three-year, staggered terms; may be elected by their department or volunteer; and may serve sequential terms.

Faculty Organization: All non-administrative CVM faculty who wish to participate. Meets on first Thursday of each month. Takes on projects (grassroots approach) of faculty interest. Conducts elections for College-wide positions. Elects a chair (two-year term, renewable) who becomes a participating member of the dean's cabinet and a secretary (two-year term, renewable).

Funding International Student Travel Committee: Reviews student applications for international travel grants (including study abroad programs in Uganda, FAO, and the USAID Fish Innovation Lab) and makes recommendations on funding. Consists of three faculty members with experience and interest in international veterinary medicine. Terms are staggered, and members may serve two consecutive threeyear terms.

Graduate Program Advisory Committee: Members are elected to represent each of the College's departments (three-year terms, renewable). Committee reviews the College's graduate program policies to ensure compliance with MSU requirements and aids in distribution of College-funded graduate stipends.

Non-Tenure Track (NTT) Promotion Committee: NTT faculty have all the rights of tenure track faculty with the exception of participating in tenure decisions. Committee uses standards from College and reviews applications for promotion for non-tenure (clinical and research) track faculty and recommends to the dean actions regarding faculty promotions. Members (at least five) at rank of associate (clinical or research) professor and above are elected by a majority vote of the College's full-time non-tenure track faculty. Members may serve two consecutive three-year terms. Terms are staggered.

Parking and Access Committee: The committee provides recommendations to MSU Traffic Committee regarding parking and traffic needs for the Wise Center and oversees access to CVM buildings and grounds to maintain a safe and secure environment for study and working. Members are appointed by the dean and consist of the building services supervisor, CVM representative to MSU Traffic Committee, and four CVM faculty members.

Policies and Procedures Committee: The committee is chaired by the assistant dean for clinical services and consists of faculty and staff who regularly and systematically review all College policies and procedures and makes recommendations for updates and revisions. Members serve according to position, including pathobiology \& population medicine manager, research program manager, academic affairs manager, dean's office administrative assistant, Animal Health Center administrative assistant, and veterinary technology program's administrative assistant.

Promotion and Tenure Committee: Committee applies standards as stated in College and University promotion and tenure documents and recommends to the dean actions regarding faculty applications for promotion and/or tenure. Members include a tenured faculty member elected by each academic department plus two elected at-large by the Faculty Organization. Serve three-year terms and may serve two consecutive terms.

## APPENDIX STANDARD 1: Organization

Recruitment Team: Recruits prospective students for admission to DVM program. Advises prospective students on DVM program requirements. The team consists of 10 faculty from various academic departments.
Research Advisory Committee: Committee advises dean and associate dean for research and graduate studies on the College's research mission and recommends guidelines for research. The associate dean for research and graduate studies appoints two research-intensive faculty who serve at the pleasure of the dean and associate dean for research and graduate studies. Other members include the heads of the three academic departments and the executive director of the diagnostic laboratory system.

Scholarship Committee: Committee distributes information on scholarships to CVM students, reviews scholarship applications, and selects recipients of MSU Foundation and other scholarships. Two members are elected to three-year terms from each of the three academic departments and they may serve successive terms. The director of admissions is ex-officio to the committee.

* List of individuals on each committee will be available at the site visit.



## APPENDIX STANDARD 2

Finances

## EXPENDITURES FOR IMMEDIATE PAST FIVE FISCAL YEARS

TABLE A

| Expenditure | Fiscal year |  |  |  |  | $\begin{gathered} \% \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |  |
| Instruction, academic support, and student services ${ }^{1,2}$ | 12,227,050 | 12,614,323 | 13,202,244 | 14,399,721 | 14,527,650 | 18.82\% |
| Research expenditures ${ }^{1}$ | 14,419,896 | 14,640,840 | 16,107,051 | 18,580,744 | 16,318,111 | 13.16\% |
| Outreach/continuingeducation ${ }^{1}$ | 468,701 | 406,542 | 442,784 | 437,219 | 441,625 | -5.78\% |
| Teaching hospital ${ }^{1}$ | 12,382,388 | 12,409,791 | 13,923,561 | 15,081,465 | 13,631,083 | 10.08\% |
| Diagnostic lab and other clinical labs | 8,071,100 | 8,446,799 | 9,421,406 | 9,334,169 | 11,103,016 | 37.57\% |
| Facilities operations and maintenance, utilities, and other expenditures for infrastructure ${ }^{3}$ | 2,971,347 | 3,114,815 | 3,133,335 | 3,361,442 | 2,789,207 | -6.13\% |
| Capital expenditures (renovations and new construction) ${ }^{4}$ | 206,886 | 867,815 | 1,344,239 | 999,568 | 1,762,972 | 752.15\% |
| Student aid (extramurally sponsored grants to students selected by the institution) | 63,649 | 69,729 | 99,290 | 101,280 | 85,172 | 33.82\% |
| Student aid (universitysponsored aid to students, inclusion of gifts and endowment income) | 726,385 | 680,029 | 962,495 | 1,047,839 | 1,107,799 | 52.51\% |
| Other expenditures | 353,756 | 369,664 | 520,682 | 288,214 | 284,166 | -19.67\% |
| Total expenditures ${ }^{5}$ | 51,891,158 | 53,640,347 | 59,157,087 | 63,631,661 | 62,050,801 | 19.58\% |

## EXPENDITURE TABLE FOOTNOTES

E1, E2, E3, E4 ${ }^{1}$ These should include salary, wages and fringe benefits for faculty and staff engaged in each category of activity (instruction, research, and outreach/continuing education and teaching hospital services).

E1 ${ }^{2}$ For distributed models of clinical education, this should include fees paid to clinical hosts.
E6 ${ }^{3}$ If colleges are assessed fees for infrastructure support provided by the university, they should be recorded here. These could include expenditures for facilities operations and maintenance (O\&M), utilities, and central university administration.
$E 7^{4}$ Capital expenditures include the acquisition and maintenance of fixed assets, such as land, buildings, and equipment. If capital expenditures are paid from college resources, they should be entered here.

E10 ${ }^{5}$ This should be the sum of expenditure rows 1-9.

## APPENDIX STANDARD 2: Finances

## COLLEGE REVENUE FOR IMMEDIATE PAST FIVE FISCAL YEARS

TABLE B

| Revenue | Fiscal year |  |  |  |  | change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |  |
| Government appropriation to college ${ }^{1}$ | 17,839,833 | 17,216,407 | 17,722,083 | 18,108,170 | 17,494,212 | -1.94\%* |
| University appropriation to college (If veterinary student tuition is returned in this appropriation, subtract it and include it in line 3.) ${ }^{2}$ | 75,839 | 84,014 | 84,781 | 86,053 | 86,053 | 13.47\% |
| Revenue derived from students (tuition and other fees) that is available for college use.** (Do not include any amount kept by or remanded to the university for central university use.) ${ }^{3}$ | 11,214,558 | 13,307,654 | 13,800,252 | 14,250,952 | 14,456,653 | 28.91\% |
| Tuition and fee revenue paid by other entities on the students' <br> behalf (e.g., educational contracts <br> \& fees for clinical instruction) ${ }^{4}$ | 1,084,270 | 1,192,270 | 1,230,280 | 1,213,530 | 1,467,664 | 35.36\% |
| Teaching hospital revenue ${ }^{5}$ (All locations) | 9,917,205 | 11,000,607 | 11,869,417 | 11,723,044 | 13,242,204 | 33.53\% |
| Diagnostic lab and other clinical lab revenue ${ }^{6}$ (All locations) | 1,998,168 | 2,649,437 | 2,893,453 | 2,907,652 | 3,376,631 | 68.99\% |
| Extramural grants and contracts ${ }^{7}$ | 7,255,980 | 7,451,138 | 9,020,953 | 8,695,287 | 5,369,156 | -26\%*** |
| Overhead (indirect costs or F\&A) returned to the college, department, or faculty member | 1,185,488 | 1,201,481 | 1,316,192 | 1,548,405 | 1,372,078 | 15.74\% |
| Current year gifts and endowment income ${ }^{8}$ | 4,937,432 | 2,346,223 | 2,763,205 | 3,073,687 | 4,026,868 | -18.44\% |
| Other revenue (CE registration, certificate program enrollment, IP royalties, and other miscellaneous revenue) | 840,579 | 675,378 | 1,384,644 | 883,693 | 771,411 | -8.23\% |
| Total revenue ${ }^{9}$ | 59,426,846 | 62,429,957 | 65,109,092 | 64,859,981 | 63,483,898 | 6.83\% |
| Funds carried forward from previous year (college, department, and faculty) | 3,077,494 | 5,305,348 | 3,023,832 | 2,369,508 | 1,820,968 | -40.83\% |

*State appropriation for FY2021 was decreased due to the COVID-19 pandemic. State appropriation for FY2022 is $\$ 18,154,397$.
**Revenue derived from students includes tuition from the Veterinary Medical Technology program. For FY2021, the CVM received $\$ 483,144$ in tuition from the VMTP.
***The FY2021 figure does not include new (August 2021) NIH U01 grant (\$3.37 M) and GOMESA (Gulf Aquatic Health) grant (\$2.2 M).

## APPENDIX STANDARD 2: Finances

## REVENUE TABLE FOOTNOTES

R1 ${ }^{1}$ Includes all appropriated public funds (state, province, region, country, etc.). Include salaries and fringe benefits for positions supported directly by the government, if any.
$R 2^{2}$ If tuition is returned to the college from the university, calculate student-derived revenue as the product of enrollment and tuition \& fee rate (line R3) and subtract this amount from the university appropriation. Enter the remaining appropriation here.

R3 ${ }^{3}$ Line 3 includes all revenue derived from students (tuition and related fees) paid directly to the college or as a part of the university allocation to the college. If this number is not known, calculate student-derived revenue as the product of enrollment and tuition \& fee rate. Enter that number here.
$R 4^{4}$ Line 4 should include any revenue derived from contracts for providing veterinary student instruction (regional contracts, independent state-to-college contracts, contracts between colleges for clinical education, etc.).

R5 ${ }^{5}$ Revenue generated by hospital services. Government and university support for the teaching hospital should be reported in rows 1 and 2 , respectively.

R6 ${ }^{6}$ Revenue generated by clinical laboratories. This should not include revenue reported for the teaching hospital in line 3. Government and university support for clinical laboratories should be reported in rows 1 and 2 , respectively.

R7 ${ }^{7}$ Total direct extramural awards. Also include awards that flow through university foundations. This should include grants for scholarly work related to research, instruction, and outreach, but should not include contracts to provide instruction (e.g., clinical year instruction for students from other institutions or contracts through which other states pay for instruction of residents of that state).

R9 ${ }^{8}$ Exclude planned gifts. Also exclude research funded through foundations already reported in line 7.
R11 ${ }^{9}$ This should be the sum of revenue rows 1-10.
ENDOWMENT
TABLE C

| Endowment | Fiscal year |  |  |  |  | $\%$ <br> change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | (rue endowment market value |
| $23,540,500$ | $24,457,108$ | $25,033,333$ | $24,663,003$ | $25,970,882$ | $10.32 \%$ |  |

## APPENDIX STANDARD 2: Finances

Bar graph comparing CVM revenue sources from FY2017 to FY2021


Pie graphs comparing CVM revenue sources in FY2017 and FY2021





APPENDIX STANDARD 3: Facilities and Equipment



## APPENDIX STANDARD 4: Clinical Resources

## Teaching Hospital

Table A. 1 Clinical Resources - On-campus facilities

| Species | FY2021 |  | FY2020 |  | FY2019 |  | FY2018 |  | FY2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Visits | Hosp | Visits | Hosp | Visits | Hosp | Visits | Hosp | Visits | Hosp |
| canine | 8,795 | 2.206 | 7,698 | 1,985 | 8,291 | 1,819 | 8,045 | 1,698 | 8,150 | 1,684 |
| feline | 1,584 | 318 | 1,289 | 216 | 1,262 | 186 | 1,287 | 172 | 1,206 | 199 |
| bovine | 1.011 | 227 | 894 | 222 | 910 | 178 | 928 | 215 | 1,009 | 239 |
| small ruminant | 181 | 74 | 168 | 60 | 191 | 60 | 206 | 74 | 213 | 69 |
| equine | 1,578 | 612 | 1,529 | 523 | 1,413 | 487 | 1,359 | 471 | 1,273 | 385 |
| porcine | 30 | 7 | 36 | 19 | 47 | 10 | 44 | 12 | 23 | 9 |
| caged birds | 7 | 0 | 9 | 0 | 26 | 0 | 35 | 1 | 22 | 0 |
| caged mammals | 61 | 3 | 50 | 0 | 37 | 0 | 41 | 5 | 19 | 0 |
| Avian / wildlife | 10 | 1 | 7 | 0 | 6 | 0 | 8 | 0 | 4 | 0 |
| other | 78 | 15 | 84 | 13 | 79 | 5 | 66 | 2 | 73 | 1 |
| TOTAL | 13,335 | 3,463 | 11,794 | 3,038 | 12,262 | 2,745 | 12,019 | 2,650 | 11,992 | 2,586 |

Patient visits - total number of times the patient visits the hospital (if Buffy visits the hospital 3 times this year, this would count as 3 visits). Hospitalized - number of patients that were hospitalized.

Table A. 2 Clinical Resources - Cases seen by students on the population medicine rotation (excluding MSU farms). *

| Species | FY2021 |  | FY2020 |  | FY2019 |  | FY2018 |  | FY2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Visits | Animals Seen | Visits | Animals Seen | Visits | Animals Seen | Visits | Animals Seen | Visits | Animals Seen |
| canine | Multiple Shelters | 30 | Multiple Shelters | 49 | Multiple Shelters | 101 | Multiple Shelters | 61 | Multiple Shelters | 150 |
| feline |  |  | Multiple Shelters | 14 | Multiple Shelters | 16 | Multiple Shelters | 40 | Multiple Shelters | 23 |
| bovine | 2 | 110 | 17 | 854 | 11 | 593 | 6 | 604 | 1 | 40 |
| small ruminant | 4 | 155 |  |  | 4 | 138 | 3 | 141 |  |  |
| porcine | 10 | 100 per visit | 10 | 100 per visit. | 10 | 100 per visit. | 10 | 100 per visit | 10 | 100 per visit |
| caged birds |  |  | 1 | 300 |  |  |  |  |  |  |
| rabbits |  |  | 1 | 120 | 3 | 625 |  |  |  |  |
| guinea pigs |  |  | 1 | 440 |  |  |  |  |  |  |
| alpacas |  |  |  |  | 2 | 35 |  |  |  |  |
| horses |  |  | 1 | 9 |  |  |  |  |  |  |

* All Year-3 students participate in a core population medicine clinical rotation. In this rotation, they are involved in conducting problem-solving investigations in populations of animals (e.g., disease outbreaks in kennels, feedlots, aviaries, etc.). Species may vary. Canine and feline "patients" listed in this table were not part of the spay/neuter program.


## APPENDIX STANDARD 4: Clinical Resources

Table A. 3 Clinical Resources - Cases seen by students in the Shelter Medicine Program*

| Shelter Medicine Program <br> Clinical Cases Managed by Students |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fiscal Year | "Shelter Medical Days" Case Load | Mobile Surgical Case Load | On-campus spay/neuter Facility Case Load | OCHS partnership case load <br> *Began May 2020* | Total surgical caseload | Grand Total |
| 2017 | 435 | 7,763 | 0 | n/a | 7,763 | 8,198 |
| 2018 | 1,351 | 5,276 | 1,723 | n/a | 6,999 | 8,350 |
| 2019 | 934 | 3,872 | 3,276 | n/a | 7,148 | 8,082 |
| 2020 | 1,404 | 1,958 | 3,865 | 254 | 6,077 | 7,481 |
| 2021 | 1,615 | N/A | 4,787 | 1,910 | 6,697 | 8,312 |

Table B Clinical Resources - college owned and operated off-campus facilities (AERC and VSC)

| Species | FY2021 |  | FY2020 |  | FY2019 |  | FY2018 |  | FY2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Visits | Hosp | Visits | Hosp | Visits | Hosp | Visits | Hosp | Visits | Hosp |
| canine | 8,029 | 1,942 | 8,366 | 2,031 | 8,033 | 1,941 | 6,863 | 1,659 | 6,182 | 1,484 |
| feline | 1,025 | 173 | 1,162 | 194 | 1,126 | 190 | 1,040 | 174 | 892 | 149 |
| bovine | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| small ruminant | 0 | 0 | 4 | 0 | 2 | 0 | 1 | 0 | 1 | 0 |
| equine | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| porcine | 0 | 0 | 3 | 0 | 1 | 0 | 2 | 0 | 1 | 0 |
| caged birds | 5 | 1 | 7 | 1 | 12 | 2 | 7 | 1 | 4 | 0 |
| caged mammals | 22 | 4 | 25 | 4 | 31 | 5 | 25 | 4 | 18 | 3 |
| wildlife | 4 | 0 | 4 | 0 | 11 | 2 | 1 | 0 | 5 | 1 |
| other | 6 | 0 | 8 | 1 | 6 | 1 | 4 | 0 | 5 | 1 |
| TOTAL | 9,091 | 2,120 | 9,581 | 2,231 | 9,212 | 2,141 | 7,944 | 1,838 | 7,109 | 1,638 |

Patient visits - total number of times the patient visits the hospital (if Buffy visits the hospital 3 times this year, this would count as 3 visits). Hospitalized - number of patients that were hospitalized.

Summary of Clinical Resources: Canine and feline cases seen in college-owned facilities and shelters - all locations supervised by CVM regular faculty (Tables A.1, A.3, B).

| Canine + Feline | FY2021 | FY2020 | FY2019 | FY2018 | FY2017 |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 27,745 | 25,996 | 26,794 | 25,585 | 24,628 |

## APPENDIX STANDARD 4: Clinical Resources

Table C Clinical Resources - Documented cases CVM students assisted with during externship experiences at privately owned and operated facilities over the past two years (data from students' required case logs).

| Species | 2021 | 2020 |
| :--- | :---: | :---: |
| Canine | 18,425 | 19,357 |
| Feline | 4,311 | 5,332 |
| Equine | 1,723 | 3,668 |
| Bovine | 27,077 | 21,204 |
| Small Ruminant | 465 | 162 |
| Porcine | 187 | 33 |
| Poultry | 262 | 918 |
| Camelid | 24 | 21 |
| Exotics/Wildlife | 2,314 | 947 |

## Ambulatory/Field Service Program

Table D Clinical Resources - college owned and operated ambulatory services.

| Species | FY2021 |  | FY2020 |  | FY2019 |  | FY2018 |  | FY2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. <br> Farm Calls | No. <br> Animals <br> Treated | No. <br> Farm Calls | No. <br> Animals Treated | No. Farm Calls | No. <br> Animals <br> Treated | No. <br> Farm Calls | No. <br> Animals Treated | No. Farm Calls | No. <br> Animals Treated |
| Bovine | 470 | 20,886 | 484 | 19,810 | 470 | 22,857 | 555 | 24,040 | 698 | 23,577 |
| Caprine | 54 | 396 | 3 | 22 | 12 | 143 | 5 | 53 | 13 | 241 |
| Equine | 296 | 1,433 | 226 | 552 | 332 | 952 | 391 | 1,295 | 397 | 894 |
| Ovine | 13 | 141 | 25 | 145 | 16 | 61 | 7 | 11 | 9 | 18 |
| Porcine | 2 | 101 | 12 | 699 | 18 | 1,206 | 8 | 17,351 | 23 | 17,206 |
| Other | 5 | 215 | 19 | 569 | 44 | 1,112 | 52 | 9,532 | 72 | 4,196 |
| TOTAL | 840 | 23,172 | 769 | 21,797 | 892 | 26,331 | 1,018 | 52,282 | 1,212 | 46,132 |

Number of Farm (site) Calls - total number of calls/visits made to farms/operations Number of Animals Examined/Treated - number of individual animals examined/treated.
Include only those patients, farm calls, and animals examined that have direct student involvement.

## APPENDIX STANDARD 4: Clinical Resources

## Herd/Flock Health Program

Table F

|  | FY | Describe your clinical resources for production medicine training by production group below |
| :---: | :---: | :---: |
| Dairy | FY17 | 5,384 dairy cattle seen during 104 farm visits. Visits involve routine reproduction evaluations and herd performance assessments. |
|  | FY18 | 6,220 dairy cattle seen during 105 farm visits. Visits involve routine reproduction evaluations and herd performance assessments. |
|  | FY19 | 3,822 dairy cattle seen during 83 farm visits. Visits involve routine reproduction evaluations and herd performance assessments. |
|  | FY20 | 3,175 dairy cattle seen during 93 farm visits. Visits involve routine reproduction evaluations and herd performance assessments. |
|  | FY21 | 3,790 dairy cattle seen during 109 farm visits. Visits involve routine reproduction evaluations and herds performance assessments. |
| Beef <br> Stocker <br> Operations | FY17 | 1,347 stocker cattle seen during 29 visits. |
|  | FY18 | 1,857 stocker cattle seen during 23 visits. |
|  | FY19 | 4,505 stocker cattle seen during 54 visits. |
|  | FY20 | 4,898 stocker cattle seen during 49 visits. |
|  | FY21 | 3,327 stocker cattle seen during 32 visits. |
| Cow-Calf | FY17 | 14,373 cattle seen during 194 farm visits. |
|  | FY18 | 13,122 cattle seen during 196 farm visits. |
|  | FY19 | 11,386 cattle seen during 172 farm visits. |
|  | FY20 | 11,607 cattle seen during 239 farm visits. |
|  | FY21 | 13,769 cattle seen during 329 farm visits. |
| Small <br> Ruminants | Fy17 | 12 patients seen during 1 farm visit. |
|  | FY18 | 35 patients seen during 1 farm visit. |
|  | FY19 | 161 patients seen during 8 farm visits. |
|  | FY20 | 143 patients seen during 13 farm visits. |
|  | FY21 | 537 patients seen during 67 farm visits. |
| Swine | FY17 | 8,860 pigs seen during 10 farm visits. |
|  | FY18 | 2,349 pigs seen during 4 farm visits. |
|  | FY19 | 400 pigs seen during 5 farm visits. |
|  | FY20 | 690 pigs seen during 4 farm visits. |
|  | FY21 | 101 pigs seen during 2 farm visits. |

## APPENDIX STANDARD 4: Clinical Resources

| Poultry | FY17 | 384 flock health farm visits or field flock health surveillance sessions. 272 hatchery visits, hatchery microbiological monitoring checks, day old chick health checks, and/or processing plant visits. Students participate in visits to 25 sites (approx. 2,500,000 birds). |
| :---: | :---: | :---: |
|  | FY18 | 404 flock health farm visits or field flock health surveillance sessions. 239 hatchery visits, hatchery microbiological monitoring checks, day old chick health checks, and/or processing plant visits. Students participated in visits to 72 sites (approx. 6,100,000 birds). |
|  | FY19 | 344 flock health farm visits or field flock health surveillance sessions. 216 hatchery visits, hatchery microbiological monitoring checks, day old chick health checks, and/or processing plant visits. Students participate in visits to 39 sites (approx. 2,900,000 birds). |
|  | FY20 | Visited 54 farms, 7 hatcheries, 214 flocks at posting sessions, and 136 pullet chick checks. Visits were decreased due to biosecurity restrictions during the COVID-19 pandemic. Students participated in visits to 32 sites (approx. 2,500,000 birds). |
|  | FY21 | Students participated in a review of poultry diseases and virtual tours of the vertically integrated poultry industry beginning in June 2020 (pandemic- poultry companies did not permit on-site visits from March 2020 through July 2021). The "tour" includes vaccination procedures, hatchery designs, |
| Fish | FY17 | 1 visit to a large, multiple pond commercial fish farm |
|  | FY18 | 0 |
|  | FY19 | 6 visits to large, multiple pond commercial fish farms |
|  | FY20 | 1 visit to a large, multiple pond commercial fish farm |
|  | FY21 | 1 visit to a large, multiple pond commercial fish farm |
| Equine | FY17 | 145 horses seen during 20 equine farm visits |
|  | FY18 | 328 horses seen during 20 equine farm visits |
|  | FY19 | 443 horses seen during 43 visits to one equine farm |
|  | FY20 | 338 horses seen during 57 equine farm visits |
|  | FY21 | 1,433 horses seen during 296 equine farm visits |
| Other: <br> Cervid, <br> Exotics <br> Shelter | FY17 | 420 animals seen during 3 visits to a cervid/exotics shelter |
|  | FY18 | 984 animals seen during 7 visits to a cervid/exotics shelter |
|  | FY19 | 1,000 animals seen during 7 visits to a cervid/exotics shelter |
|  | FY20 | 535 animals seen during 9 visits to a cervid/exotics shelter |
|  | FY21 | 215 animals seen during 5 visits to a cervid/exotics shelter |

## APPENDIX STANDARD 4: Clinical Resources

Table G- Number of Necropsies Involving Students.

| Species | FY2021 | FY2020 | FY2019 | FY2018 | FY2017 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Canine | 292 | 279 | 310 | 292 | 303 |
| Feline | 71 | 85 | 91 | 68 | 92 |
| Bovine | 244 | 208 | 177 | 180 | 115 |
| Caprine | 51 | 28 | 26 | 39 | 23 |
| Equine | 78 | 71 | 78 | 92 | 68 |
| Ovine | 18 | 20 | 13 | 13 | 7 |
| Porcine | 8 | 3 | 8 | 14 | 7 |
| Poultry | 11 | 7 | 11 | 2 | 4 |
| Other Birds | 4 | 6 | 8 | 11 | 19 |
| Non-Avian Exotics | 4 | 8 | 19 | 8 | 13 |
| Lepidochelys kempii (Sea turtle) | 1 | 4 | 14 | 3 | 11 |
| Caretta caretta (Sea turtle) | 0 | 2 | 1 | 1 | 1 |
| Chelonia mydas (Sea turtle) | 0 | 1 | 2 | 0 | 0 |
| Tursiops truncatus (Bottlenose Dolphin) | 18 | 46 | 61 | 6 | 16 |
| Feresa attenuata (Pygmy Killer Whale) | 0 | 1 | 0 | 0 | 0 |
| P TOTAL | 800 | 769 | 819 | 729 | 679 |

Off-Campus Facilities

| HOSPITAL CLINIC, SHELTER | REQUIRED ROTATION FULFILLED | ROTATION DURATION (WEEKS) | AVG NO. STUDENTS PER YR. | $\begin{aligned} & \text { SURGERY } \\ & \mathrm{Y} / \mathrm{N} \end{aligned}$ | NECROPSY Y/N | CLIN <br> PATH <br> (Y/ON <br> SITE, <br> Y/OFF <br> SITE) | IMAGING Y/N | $\begin{aligned} & \text { ICU } \\ & \mathrm{Y} / \mathrm{N} \end{aligned}$ | ISOLATION Y/N | MOST RECENT ANNUAL CASELOAD BY SPECIES FOR THE FACILITY |  |  |  |  |  | NEW OR REINTRO DUCED SITE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | CANINE | FELINE | EQUINE | BOVINE | SM RUM | OTHER |  |
| AERC | Yes | 2 weeks | All (required) | Y | N | onsite | Y | Y | Y | 6,958 | 977 | 0 | 0 | 0 | 37 |  |
| VSC | Yes | 4 weeks | All (required) | N | N | offsite | Y | N | N | 1,071 | 48 | 0 | 0 | 0 | 0 |  |
| OCHS | Yes | 1 week | All (required) | Y | N | offsite | N | N | N | 2,530 | 1,274 | 0 | 0 | 0 | 10 |  |
| IMMS | No | varies | 82 | Y | Y | onsite | Y | N | Y | 0 | 0 | 0 | 0 | 0 | See below* |  |

AERC=Animal Emergency and Referral Center, VSC= Veterinary Specialty Center, OCHS=Oktibbeha County Humane Society, IMMS-Institute for Marine Mammal Studies

| *IMMS Caseload Wild Population |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Species | FY2021 | FY2020 | FY2019 | FY2018 | FY2017 |
| Lepidochelys kempii (Sea turtle) |  | 21 | 28 | 29 | 15 |
| Chelonia mydas (Sea turtle) |  |  | 2 |  |  |
| Caretta caretta (Sea turtle) |  |  | 3 |  |  |
| Tursiops truncatus (Bottlenose Dolphin) |  | 1 | 3 | 2 | 1 |
| Peponocephala electra (Melon headed whale) |  |  |  | 1 |  |
| Steno bredanensis (Rough toothed Dolphin) |  |  | 1 |  |  |
| Stenella attenuata (Pantropical spotted dolphin) |  |  | 1 |  |  |
| Feresa attenuata (Pygmy Killer Whale) |  | 1 |  |  |  |


| *IMMS Caseload Resident Animals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Species | Fy2021 | FY2020 | FY2019 | FY2018 | FY2017 |
| Tursiops truncatus (Bottlenose Dolphin) |  | 6 | 6 | 6 | 6 |
| Common Dolphin/Tursiops truncatus (Bottlenose dolphin) |  | 1 | 1 | 1 | 1 |
| Zalophus Californianus (California Sea lions) |  | 7 | 7 | 6 | 6 |
| Rhinoptera bonasus (Cownose Rays) |  | 40 | 38 | 37 | 35 |
| Snakes |  | 7 | 7 | 5 | 5 |
| Birds |  | 6 | 6 | 6 | 5 |

## APPENDIX STANDARD 4: Clinical Resources

## Off-Campus Facilities

## Table I

| Off campus site: Number \& educational experience | Duration of rotation | Number of students per year | Faculty mentor approved (check) |  | Off site <br> Evaluator | Written educational objective(s) (check) |  | Educational outcomes assessed \& student evaluations reviewed (check) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Yes | No |  | Yes | No | Yes | No |
| Animal Emergency \& Referral Center - $\mathbf{4}^{\text {th }}$ year rotation | 2 weeks | All (required) | $\checkmark$ |  | CVM Faculty Members | $\checkmark$ |  | $\checkmark$ |  |
| Veterinary Specialty Center- $4^{\text {th }}$ year rotation | 4 weeks | All (required) | $\checkmark$ |  | CVM Faculty Members | $\checkmark$ |  | $\checkmark$ |  |
| OCHS | 1 week | All (required) | $\checkmark$ |  | CVM Faculty Member (Dr. Alex Sheely) | $\checkmark$ |  | $\checkmark$ |  |
| IMMS | varies | 82 of 88 <br> students <br> in 2019 <br> 13 students in <br> 2020 <br> 34 students in <br> 2021 | $\checkmark$ |  | CVM Faculty Members (Drs, Debra Moore, Christa Barrett. others) |  | $\checkmark$ |  | $\checkmark$ |

OCHS=Oktibbeha County Humane Society, IMMS=Institute for Marine Mammal Studies

| Community Veterinary Services Rotation (6 week core 3 ${ }^{\text {rd }}$ year rotation)* <br> Activities in addition to traditional "first opinion" small animal cases |  |  |
| :---: | :---: | :---: |
| Activity | Time and/or Frequency for each 8-week rotation | Description |
| Medical Days at area animal shelters | 4 days | Students, accompanied by a faculty member, conduct physical exams, learn about biosecurity, infectious disease control, and population medicine. |
| Lunch and Learn meetings | 6 sessions | Topics include vaccinology, heartworm disease, NSAID use in practice, and flea and tick control presented by veterinarians from pharmaceutical industry. |
| Topic rounds | M-Th from 8-9am Fridays 9-10am | Topics include dermatology, dentistry, shelter medicine, ophthalmology, and communications. |
| Dental Extraction and Pain Management Lab | 3 hours | Students perform dental procedures on canine cadaver heads. |
| Reptile Handling Lab | 1 hour | Students handle snakes and other pet reptiles and learn best husbandry practices and examination techniques |
| Small Mammal Handling Lab | 2 hours | Students handle small mammals and learn best husbandry practices, common illnesses, and examination techniques |
| Dermatology cases | 3 days | Each student spends 3 days with Dr. Juli Gunter, DACVD seeing cases |
| Communications training | 4 hours | Students receive training in communicating with clients, colleagues, and referring veterinarians |
| Videotaping and feedback | 6-8 hours | Students are taped during their interactions with clients and then given feedback on exam room techniques. During the pandemic when curbside service was used, this was accomplished using mock client interaction via WebEx and telephone interviews |
| Fireside Chats | 1-3 times per week | Faculty members cover topics of interest, such as interpreting EKGs, diabetic case management, dental homecare, etc. |

## APPENDIX STANDARD 4: Clinical Resources

| Cedar Hill Animal Sanctuary (elective) | 1 day per rotation | Students travel to sanctuary with faculty member <br> where they get hands-on experience with exotic <br> species including animal husbandry practices and <br> basic care (e.g., nail and beak trimming.) |
| :--- | :--- | :--- |
| Partners for Healthy Pets Nutrition <br> Modules | 5 online modules | Students complete five online nutrition modules <br> focusing on nutritional support of small animal <br> patients. Students also complete two nutritional <br> assessments on patients seen during the rotation |
| VetVance ${ }^{\oplus}$ Business Course | 9 modules | Students complete nine online business modules <br> covering topics such as client service, financial <br> decision-making, and interview skills. |
| Fear Free Certification | 8 modules | The Fear Free ${ }^{\oplus}$ modules help students recognize <br> the signs of stress and anxiety in their small animal <br> patients. Students will be Fear Free certified after <br> completion. |
| Avian Handling Lab | 1.5 hours | Students learn about pet bird husbandry, handling <br> techniques, as well as blood draws, passing <br> feeding tubes, and administering fluids using <br> chickens as models. |
| Clinical Skills Hematology Suite | 2 hours | Teaching models are used to train students in a <br> suite of hematological techniques including bone <br> marrow aspiration, bone marrow core biopsy, <br> preparation of aspiration and core biopsy samples, <br> blood smears, manual platelet estimates, and <br> saline slide agglutination. |

*Community Veterinary Services (CVS) is a 6-week core Year-3 rotation. Typically, 12 students are in the rotation. Twenty-three days are spent seeing primary care patients, 3 days spent working with the dermatologist, 4 days spent at an animal shelter, and the remaining time spent as described in the above table.

# APPENDIX STANDARD 4: Clinical Resources 

## CVM Communications Training <br> Professional Development I Course and CVS Clinical Rotation

PHASE I STUDENTS

- The communication curriculum introduces communication background, theory, and clinical communication tools during first and second year in the Professional Development courses.


## PHASE II STUDENTS

- The veterinary student communication training program began in 2013. The current curriculum consists of:
- Four 1-hour topic rounds (led by Dr. Jesse Grady) during the CVS rotation (relationship-centered communication):
- Open-ended question exercise
- Reverse-engineering question development exercise
- Introduction to clinical communication, clinical reasoning, medical problem solving.
- End-of-life communication and euthanasia guidelines
- Client:student interaction videos are reviewed with students five times during every six-week rotation. Privacy rules are set at the beginning to maintain client anonymity, decrease student stress during the review, and to encourage open discussion.
- COVID curriculum: During the initial stages of the pandemic the Animal Health Center reverted to an emergency only schedule, effectively eliminating student opportunities for client interaction. During this time, communications training included:
- Four 1-hour topic rounds via WebEx covering the following:
- Open-ended question exercise
- Reverse-engineering question development exercise
- Introduction to clinical communication, clinical reasoning, medical problem solving.
- End-of-life communication and euthanasia guidelines
- Pet owners were recruited to interact with veterinary students in mock virtual visits (47 owners enrolled). Students were assigned a case, a reason for the visit, specific communication tools to work on. Clients were assigned a reason for visit and a list of real or sham concerns to mention. All CVS students observed and took notes if they were not participating on that given day. Each mock interaction lasted 10-15 minutes, followed by an opportunity for the client to give feedback, and then a 5-10-minute group debriefing before the second case started.
- Five Monday communication rounds per rotation. New exercises were devised.
- Eliciting the client perspective exercise (groups of 2).
- Shared decision-making diagraming and exercise.
- Empathy statement diagraming and exercise.
- Digital Communication Website Evaluation utilizing Texas A\&M's shared PCVE modules.
- Free week- students select various activities based on needs and preferences. Typically utilizing the "What Would You Do" exercise based on real cases or listening to and providing feedback on Dr Grady's personal training videos from FRANK sessions at CSU.


## APPENDIX STANDARD 6: Students

Complete the following tables describing enrollment for each of the last five years:

Table A. Veterinary Medical Program

| Class | 2017 | 2018 | 2019 | 2020 | 2021 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| First-year | 91 | 95 | 95 | 96 | 114 |
| Second-year | 89 | 90 | 95 | 95 | 97 |
| Third-year | 82 | 91 | 90 | 91 | 95 |
| Fourth-year | 81 | 82 | 91 | 88 | 94 |
| $\#$ Graduated | 81 | 82 | 91 | 88 | 91 |

Table B. Interns, Residents, and Graduate Students (enter each person in only one category) per year for last five years.

| Department | Year | \# Interns | \# Residents | \# ResidentMS | \# ResidentPhD | \#GRA MS | \#GRA <br> PhD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department of Clinical Sciences | FY17 | 12 | 10 | 7 | 1 | 5 | 4 |
|  | FY18 | 12 | 9 | 9 | 0 | 3 | 4 |
|  | FY19 | 8 | 10 | 11 | 0 | 2 | 4 |
|  | FY20 | 11 | 4 | 13 | 0 | 2 | 5 |
|  | FY21 | 11 | 5 | 10 | 0 | 3 | 2 |
| Department of Pathobiology and Population Medicine | FY17 | 3 | 0 | 2 | 2 | 2 | 5 |
|  | FY18 | 2 | 2 | 3 | 1 | 1 | 7 |
|  | FY19 | 3 | 2 | 3 | 2 | 2 | 4 |
|  | FY20 | 4 | 4 | 5 | 1 | 1 | 4 |
|  | FY21 | 4 | 5 | 4 | 2 | 2 | 6 |
| Department of Comparative Biomedical Sciences | FY17 | 0 | 0 | 0 | 0 | 5 | 38 |
|  | FY18 | 0 | 0 | 0 | 0 | 6 | 39 |
|  | FY19 | 0 | 0 | 0 | 0 | 6 | 31 |
|  | Fy20 | 0 | 0 | 0 | 0 | 7 | 23 |
|  | Fy21 | 0 | 0 | 0 | 0 | 6 | 21 |

## APPENDIX STANDARD 6: Students

Table C. Minority DVM students per year for last five years

| Academic Year | DVM |  |  |
| :---: | :---: | :---: | :---: |
|  | Total \# Students | *Minority | \% Minority |
| $2017-2018$ | 361 | 24 | 6.6 |
| $2018-2019$ | 371 | 28 | 7.5 |
| $2019-2020$ | 373 | 34 | 9.1 |
| $2020-2021$ | 382 | 35 | 9.1 |
| $2021-2022$ | 400 | 38 | 9.4 |

* Minority = students from historically underrepresented racial and ethnic groups to include African-

American/Black, Asian, Alaskan Native, American Indian, Hispanic, Native Hawaiian, Pacific Islander, and Multiethnic/racial. Foreign nationals should not be included in the minority category.

Table D. Other educational programs

| Year | ACTIVITIES |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Additional Clinical <br> Year Students* | Veterinary <br> Technician Program <br> Number Enrolled | Undergraduate <br> Programs <br> Number Enrolled | Other <br> Number Enrolled |
| $2016-2017$ | 1 | 47 | 0 | 0 |
| $2017-2018$ | 4 | 51 | 0 | 0 |
| $2018-2019$ | 9 | 59 | 0 | 0 |
| $2019-2020$ | 8 | 63 | 0 | 0 |
| $2020-2021$ | 5 | 68 | 0 | 0 |

[^0]
## Active student organizations and student chapters:

1. Alpha Psi Fraternity
2. American Veterinary Medical Association
3. American Association of Bovine Practitioners
4. American Association of Equine Practitioners
5. American Association of Feline Practitioners
6. American Association of Veterinary Nutritionists
7. American Association of Veterinary Parasitologists
8. American College of Veterinary Internal Medicine
9. Animal Disaster Response Team
10. Association of Clinical Veterinary Pathologists

Other student services and events provided by or overseen by the Office of Academic Affairs:

- Lunch-and-Learn programs focusing on wellness, career development, and social skills
- Oversight of the CVM scholarship program and notification of outside scholarships
- Orientation program for the incoming class
- Creation of "Meet the Class of ____" book for all incoming classes, and distribution to new students and faculty
- Assistance with housing and roommate selection
- Financial aid advising
- Class elections
- Selection of CVM Envoys and coordinating schedules and activities
- Coordination of the activities of Big Sib program
- Oversight of student representatives for veterinary and pet food companies
- Liaison to the University Office of Trademark and Licensing
- Scheduling and coordination of rabies vaccinations for the first-year class
- Oversight of the Student Code of Professional Conduct
- Coordination of student issues with the MSU Dean of Student Affairs Office
- Listening sessions/discussions with class officers on class issues and concerns
- Coating Ceremony for entering class
- Awards Ceremony for graduating class
- Commencement and post-commencement reception
- Coordination of the College's participation in Diversity Matters

11. Association of Shelter Veterinarians
12. Christian Veterinary Fellowship
13. International Veterinary Student Association
14. Lab Animal Practitioners/Research Club
15. Surgery Club
16. Theriogenology Club
17. Veterinary Business Management Association
18. Veterinary Emergency and Critical Care Society
19. Veterinary Students as One in Culture and Ethnicity (VOICE)
20. Wildlife, Exotic, Zoo, Avian and Aquatic Medicine

## Activities related to recruiting and admissions provided by or overseen by the Office of Academic Affairs also include the following: <br> - Oversight of Early Entry Program

- Admissions counseling for prospective applicants
- Providing leadership and support to the college's Admissions Committee
- Counseling and advising to applicants who were denied admission
- Tours of the CVM and advising prospective students
- Recruiting visits to high school and undergraduate programs
- Oversight of cooperative admissions programs with the Pontifical Catholic University of Puerto Rico and the University of Puerto Rico Mayaguez, and Tougaloo College (HBCU in Jackson, MS).



## APPENDIX STANDARD 7: Admissions

Courses that must be completed successfully before matriculation are:

| Writing | 6 semester hours |
| :--- | :--- |
| Speech | 3 semester hours |
| Mathematics (minimum College Algebra) | 6 semester hours |
| General Biology and laboratories | 8 semester hours |
| Microbiology and laboratory | 4 semester hours |
| General Chemistry and laboratories | 8 semester hours |
| Organic Chemistry and laboratories | 8 semester hours |
| Biochemistry | 3 semester hours |
| Physics | 6 semester hours |
| Advanced Science Electives | 12 semester hours |
| Humanities, Fine Arts, Social Sciences | 15 semester hours |

Table A

| YEAR | STATE RESIDENTS |  | NON RESIDENTS |  | CONTRACT STUDENTS |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A/P* | O/A** | A/P | 0/A | A/P | O/A | A/P | O/A |
| 2017 | $\begin{aligned} & \hline 67 / 27 \\ & \text { (12 EEP/1 } \\ & \text { deferred) } \end{aligned}$ | 27/27 | $\begin{aligned} & \text { 709/43 } \\ & \text { (2 EEP) } \end{aligned}$ | 143/41 | 82/12 | 26/12 | 858/82 | $196 / 80(95)$ <br> (14 EEP/1 deferred) |
| 2018 | $80 / 22$ <br> (16 EEP/2 deferred) | 23/22 | 737/40 <br> (1 EEP/1 <br> deferred/1 <br> remediated) | 150/40 | 85/12 | 24/12 | 902/74 | 197/76 (97) <br> (17 EEP/3 deferred/1 remediated) |
| 2019 | $\begin{aligned} & 105 / 28 \\ & \text { (13 EEP/2 } \\ & \text { deferred) } \end{aligned}$ | 28/28 | 993/38 <br> (2 EEP/1 <br> deferred/1 <br> remediated) | 119/38 | 108/12 | 21/12 | 1206/78 | $\begin{aligned} & \text { 166/78 (96) } \\ & (15 \text { EEP/3 } \\ & \text { deferred/1 } \\ & \text { remediated) } \end{aligned}$ |
| 2020 | $95 / 33$ $(16$ EEP $)$ | 35/33 | $\begin{aligned} & 1028 / 32 \\ & \text { (1 deferred) } \end{aligned}$ | 112/32 | 117/15 | 30/15 | 1240/80 | $\begin{aligned} & \text { 192/80 (97) } \\ & (16 \text { EEP/1 } \\ & \text { deferred) } \end{aligned}$ |
| 2021 | 115/48 <br> (9 EEP) | 43/39 | 1005/49 <br> (2 EEP/1 <br> deferred) | 168/50 | 118/11 <br> (1 EEP) | 20/12 | 1238/100 | $\begin{array}{\|l} 231 / 101(114) \\ (12 \mathrm{EEP} / 1 \\ \text { deferred) } \end{array}$ |

*A/P = Applications/Positions Available
** $\mathrm{O} / \mathrm{A}=$ Offers Made/Acceptances
Table A also includes applicants to the Early Entry Program (EEP). This program is for high-achieving high school seniors with a minimum ACT score of 27 and a minimum high school grade point of $90 \%$ or 3.6 on a 4.0 scale. Approximately 25-30 students are accepted into the Early Entry Program each year and begin undergraduate studies at Mississippi State University. They matriculate into the College following successful completion of all academic requirements and verified 480 hours of approved veterinary experience.
Mississippi resident and non-resident students are eligible for the program.


APPENDIX STANDARD 8
Faculty

## APPENDIX STANDARD 8: Faculty

Table A - Loss and recruitment of faculty (both tenure track \& clinical track/equivalent) from the past five years.

| Year | Department | Faculty Lost |  | Faculty Recruited |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \# | Discipline/Specialty | \# | Discipline/Specialty |
| FY17 | DCS | $\begin{aligned} & 2 \\ & 1 \end{aligned}$ | Small Animal Surgery <br> Anesthesiology <br> Equine | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | Anesthesiology Behavior Medicine <br> Oncology Internal Medicine <br> Anatomy |
|  | PPM | $\begin{aligned} & \hline 1 \\ & 1 \\ & 1 \end{aligned}$ | Clinical Pathology Aquatic Animal Medicine <br> Anatomic Pathology | 1 | Food Animal Medicine |
|  | DCBS | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | Microbiology <br> Virology | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | Virology <br> Parasitology |
| FY18 | DCS | 1 <br> 1 | Small Animal Internal Medicine <br> Diagnostic Imaging | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | Neurology <br> Shelter Medicine <br> Emergency Medicine |
|  | PPM | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | Epidemiology/Public Health <br> Anatomic Pathology <br> Preventive Medicine | 1 | Marine Animal Health |
|  | DCBS | 1 | Neuroscience | 2 | Infectious Diseases |
|  | DCS | 1 1 1 | Shelter Medicine <br> Critical Care <br> Small Animal Surgery | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | Community Veterinary Services <br> Equine Surgery <br> Small Animal Surgery |

## APPENDIX STANDARD 8: Faculty

| FY19 | 1 | Clinical Pathology | 1 | Clinical Pathology |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | Poultry Medicine | 1 | Anatomic Pathology |
|  | DCBS | 1 | Theriogenology |  |  |
|  |  | DCS | 1 | Community Veterinary Services | 1 |

* The Animal Emergency and Referral Center (AERC) became officially part of CVM and the adjunct faculty became regular faculty members.


## APPENDIX STANDARD 8: Faculty

Table B - Staff support for teaching and research.

| AREA | FTE CLERICAL | FTE TECHNICAL | OTHER |
| :--- | :---: | :---: | :---: |
| CLINICAL TEACHING | 28 | 101 | - |
| NON-CLINICAL TEACHING | 22 | 49 | 39.5 |
| RESEARCH | 7.5 | 47.5 | - |
| TOTAL | 57.5 | 197.5 | 39.5 |
| Overall Total |  |  |  |

Table C - Non-Veterinarians

| Title | MS | PhD | Board Certified |  <br> MS |  <br> PhD |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Administrator | 0 | 0 | 0 | 0 | 0 |
| Professor* | 0 | 6 | 0 | 0 | 2 |
| Associate Professor* | 0 | 5 | 0 | 0 | 1 |
| Assistant Professor* | 0 | 4 | 0 | 0 | 0 |
| Instructor | 0 | 0 | 0 | 0 | 0 |
| Lecturer | 0 | 0 | 0 | 0 | 0 |
| Part-time Faculty <br> (less than 75\% time) | 0 | 0 | 0 | 0 |  |

*Includes clinical track

Table D -Veterinarians

| Title | DVM <br> (only) | MS | PhD | Board <br> Certified | Board <br>  <br> MS | Board <br>  <br> PhD |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrator | 1 | 1 | 0 | 1 | 2 | 2 |
| Professor* | 1 | 0 | 5 | 1 | 5 | 10 |
| Associate Professor* | 2 | 2 | 3 | 7 | 11 | 1 |
| Assistant Professor* | 11 | 3 | 2 | 8 | 7 | 0 |
| Instructor | 11 | 0 | 0 | 1 | 0 | 0 |
| Lecturer | 0 | 0 | 0 | 0 | 0 | 0 |
| Part-time Faculty (less <br> than 75\% time) | 7.7 | 0 | 0 | 0.5 | 0.65 | 0 |

[^1]
## APPENDIX STANDARD 8: Faculty

| Faculty Listing by Department and Rank |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| College of Veterinary Medicine |  |  |  |  |  |  |
| Mississippi State University |  |  |  |  |  |  |
| DEPT | NAME | RANK/TITLE | DEGREE(S) | BOARD CERTIFICATION | SPECIALTY | Role with DVM Students |
| Administration: |  |  |  |  |  |  |
|  | Hoblet, Kent H. | Dean, Professor | DVM, MS | ACVPM | Preventive Medicine | DVM Instruction |
|  | McLaughlin, Ron | Associate Dean for Administration, Professor | DVM, DVSC | ACVS | Small Animal Surgery | DVM Instruction |
|  | Jack Smith | Assoc Dean Academic Affairs, Professor | DVM | ACT | Theriogenology | DVM Instruction |
|  | David Smith | Assoc Dean Research \& Graduate Studies, Professor | DVM, PhD | ACVPM (Epidemiology) | Epidemiology | DVM Instruction/Course Leader |
|  | Brittany Moore-Henders | Asst Dean Admissions/Student Affairs, Assistant Clinical Professo | DVM |  | Veterinary Practice | DVM Instruction |
|  | Pace, Lanny W. | Executive Director MVRDLS, Professor | DVM, PhD | ACVP | Anatomic Pathology | DVM Instruction |
|  | Burt, Gary Joe | Assisant Dean for Clinical Services / AHC Director, Clinical Profes | DVM, MPH |  | Veterinary Practice | DVM Instruction/Course Leader |
|  |  |  |  |  |  |  |
| Department of Comparative Biomedical Sciences: |  |  |  |  |  |  |
|  | Wills, Robert W. | Head/Professor | DVM, PhD | ACVPM (Epidemiology) | Epidemiology | DVM Instruction |
|  | Pruett, Stephen B. | Professor | PhD |  | Immunology, Toxicology | DVM Instruction |
|  | Karsi, Attila | Professor | PhD |  | Infectious Disease, Fish Genetics | DVM Instruction |
|  | Pharr, Gregory T. | Associate Professor | PhD |  | Immunology | DVM Instruction/Co-Course Leader |
|  | Varela-Stokes, Andrea | Professor | DVM, PhD |  | Parasitology, Tick Borne Disease | DVM Instruction/ Course Leader |
|  | Kaplan, Barbara L. | Associate Professor | PhD |  | Immunology, Toxicology | DVM Instruction |
|  | Seo, Keun Seok | Associate Professor | DVM, PhD |  | Microbiology, Immunology | DVM Instruction/Course Leader |
|  | Petrie-Hanson, Lora | Associate Professor | PhD | AFS/FHS (Fish Pathology) | Immunology | DVM/PhD mentor, Summer research advisor |
|  | Hanson, Larry A. | Professor | PhD | AFS/FHS (Fish Pathology) | Molecular Virology | Summer research advisor |
|  | Howell, Trey | Associate Professor | PhD |  | Physiology, Toxicology | DVM Instruction |
|  | Nanduri, Bindu | Professor | PhD |  | Infectious Disease, Bioinformatics | DVM/PhD mentor, Summer research advisor |
|  | Abdelhamed, Hossam | Assistant Research Professor | DVM, PhD |  | Fish Diseases and Management | DVM Instruction |
|  | Wang, Chinling | Associate Professor | DVM, PhD |  | Microbiology | DVM Instruction/Course Leader |
|  | Chambers, Janice E. | Professor | PhD | ABT, ATS Fellow (Toxicology) | Toxicology | Summer research advisor |
|  | Pinchuk, Lesya M. | Associate Professor | MD, PhD |  | Immunology | DVM Instruction/Coures Leader |
|  | Carr, Russell L. | Associate Professor | PhD |  | Toxicology | DVM/PhD mentor, summer research advisor |
|  | Rosser, Graham | Assistant Research Professor | PhD |  | Parasitology and Aquatics | DVM Instruction |
|  | Park, Joo Youn | Assistant Research Professor | DVM, PhD |  | Microbiology, Immunology | DVM Instruction |
|  | Lawrence, Mark | Professor | DVM, PhD |  | Bacteriology, Aquatics | DVM/PhD mentor, summer research advisor |
|  | Ross, Matthew K. | Professor | PhD |  | Toxicology |  |
|  |  |  |  |  |  |  |
| Department of Clinical Sciences: |  |  |  |  |  |  |
|  | Swanson, Elizabeth | Associate Professor | DVM, MS | ACvs | Small Animal Surgery | DVM Instruction |
|  | Castaldo, Sarah | Assistant Clinical Professor | DVM. MS |  | Small Animal Surgery | DVM Instruction |
|  | Correa Natalini, Claudio | Associate Professor | DVM, MS, PhD | ACVAA | Small Animal Surgery | DVM Instruction |
|  | Jaffe, Michael | Associate Professor | DVM, MS | ACVS | Small Animal Surgery | DVM Instruction/Course Leader/Service Chief |
|  | Whitney, Melody | Assistant Clinical Professor | DVM |  | Small Animal Surgery | DVM Instruction |
|  | Lee, Alison | Assistant Professor | DVM, MS | ACVR | Diagnostic Imaging | DVM Instruction/Course Leader/Service Chief |
|  | Betbeze, Caroline M. | Associate Clinical Professor | DVM, MS | ACVO | Ophthalmology | DVM Instruction/Course Leader/Service Chief |
|  | Telle, Becky | Assistant Clinical Professor | DVM | ACVO | Ophthalmology | DVM Instruction |
|  | Shores, Andy | Clinical Professor | DVM, PhD | ACVIM (Neurology) | Neurology, Neurosurgery | DVM Instruction/Course Leader/ Service Chief |
|  | Beasley, Michaela | Associate Clinical Professor | DVM, MS | ACVIM (Neurology) | Neurology, Neurosurgery | DVM Instruction/Course Leader |
|  | Grace, Sharon F. | Clinical Professor | DVM, MS | ACVIM, ABVP | Feline Internal Medicine | DVM Instruction/Course Leader |
|  | Langston, Vernon C. | Professor | DVM, PhD | ACVCP | Clinical Pharmacology | DVM Instruction/Course Leader |
|  | Mackin, Andrew J. | Head Dept of Clinical Sciences, Professor | BVMS,MVS, DVSc | ACVIM, FACNCVSC | Small Animal Internal Medicine | DVM Instruction |
|  | Lathan, Patricia A. | Associate Professor | VMD, MS | ACVIM | Small Animal Internal Medicine | DVM Instruction/Course Leader |
|  | Archer, Todd M. | Associate Professor/Chair | DVM, MS | ACVIM | Small Animal Internal Medicine | DVM Instruction/Course Leader |
|  | Sullivant, Alyssa | Assistant Clinical Professor | DVM, MS | ACVIM | Small Animal Internal Medicine | DVM Instruction/Cuorse Leader |
|  | Marquardt, Taya | Assistant Clinical Professor | DVM, MS | ACVIM (Oncology) | Oncology | DVM Instruction/Course Leader |
|  | Thomason, John M. | Associate Professor | DVM, MS | ACVIM | Oncology, SA Internal Medicine | DVM Instruction/Course Leader/Service Chief |
|  | Linford, Robert L. | Professor | DVM, PhD | ACVS | Equine Surgery, Anatomy | DVM Instruction/Course Leader |
|  | Eubanks, Diana Lee | Clinical Professor | DVM, MS | ABVP, AVD Fellow | Dentistry, CVS | DVM Instruction |
|  | Bryan, Christine E. | Associate Clinical Professor | DVM |  | Internal Medicine, CVS | Co-Director of Skills Lab/Instructor/Course Leader |
|  | Cade, Jeb Coleman | Associate Clinical Professor | DVM, MS |  | Veterinary Practice, CVS | DVM Instruction/Course Leader/Service Chief |
|  | Grady, Jesse | Assistant Clinical Professor | DVM, MS |  | Veterinary Practice, CVS | DVM Instruction |
| PT | Jaffe, Tracy | Clinical Instructor | DVM |  | Veterinary Practice, CVS | DVM Instruction |
| PT | Torres-Cosme, Nathalia | Clinical Instructor | DVM |  | Veterinary Practice, CVS | DVM Instruction |
|  | Seyer, Chase | Clinical Instructor | DVM |  | Veterinary Practice, CVS, Shelter Med | DVM Instruction |
|  | Gowan, Michael | Assistant Clinical Professor | DVM |  | Veterinary Practice, CVS | DVM Instruction |
|  | Ivey, Clay | Assistant Clinical Professor | DVM |  | Veterinary Practice, CVS | DVM Instruction/Course Leader/Service Chief |
|  | Byrd, Wendy | Assistant Clinical Professor | DVM |  | Veterinary Practice, Rehab | DVM Instruction |
|  | Winstead, Joshlyn | Clinical Instructor | DVM |  | Veterinary Practice, CVS | DVM Instruction |
|  | Fraiser, Abbey | Clinical Instructor | DVM |  | Veterinary Practice, CVS | DVM Instruction |
|  | Mulligan, Charlee | Clinical Instructor | DVM, MS |  | Veterinary Practice, CVS | DVM Instruction |
| PT | Sills, Kirby | Clinical Instructor | DVM |  | Veterinary Practice, CVS | DVM Instruction |
|  | Gunter, Miriam J. | Assistant Clinical Professor | DVM, MS | ACVD | Dermatology | DVM Instruction |
|  | Woodruff, Kimberly | Associate Clinical Professor | DVM, MS | ACVPM (Epidemiology) | Shelter Medicine | DVM Instruction/Course Leader/Service Chief |
|  | Shivley, Jacob M. | Associate Clinical Professor | DVM, MS |  | Shelter Medicine | DVM Instruction/Course Leader |
|  | Brookshire, Cooper | Assistant Clinical Professor | DVM | ABVP, ACVPM (Epidemiology) | Shelter Medicine | DVM Instruction/Course Leader |
|  | Shealy, Alex | Clinical Instructor | DVM |  | Shelter Medicine | DVM Instruction |
|  | Chavez, Kristie | Assistant Clinical Professor | DVM |  | Emergency Medicine | DVM Instruction/Course Leader/ Service Chief |
|  | Seitz, Marc | Assistant Clinical Professor | DVM | ABVP | Diagnostic Imaging | DVM Instruction |
|  | Walkins, Rebecca | Assistant Clinical Professor | DVM |  | Emergency Medicine | DVM Instruction |
|  | Meyer, Robert E. | Professor | DVM | ACVA | Anesthesiology | DVM Instruction/Course Leader |
|  | Hinz, Simone B. | Assistant Clinical Professor | DVM |  | Anesthesiology | DVM Instruction/Course Leader/ Service Chief |
|  | Kettleman, William | Clinical Instructor | DVM |  | Surgery | DVM Instruction |
|  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |
|  | Faculty Listing by Department and Rank |  |  |  |  |  |

## APPENDIX STANDARD 8: Faculty

| College of Veterinary Medicine |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NAME | RANK/TITLE | DEGREE(S) | BOARD CERTIFICATION | Specialty | Role with Students |
| Veterinary Medical Technology Program |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Gardner, Allison L. | Associate Clinical Professor | DVM |  | Veterinary Technology | DVM and VMT Instruction/Course Leader |
|  | Jackson, Maralyn | Director VMTP, Assistant Clinical Professor | DVM, PhD |  | Veterinary Technology | Co-Director of Skills Lab/ DVM and VMT Instruction |
|  | Kohler, Amanda | Assistant Clinical Professor | DVM |  | Veterinary Technology | VMT Instruction/Course Leader |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Department of Pathbiology and Population Medicine: |  |  |  |  |  |  |
| Starkville Campus |  |  |  |  |  |  |
|  | Brett, James A. | Clinical Professor | DVM |  | Ambulatory Practice | DVM Instruction/Course Leader |
|  | Christiansen, David | Assistant Clinical Professor | DVM, MS |  | Ambulatory Practice | DVM Instruction/Service Chief |
|  | Reichley, Stephen | Assistant Clinical Professor | DVM, PhD | Certified Aquatic Veterinarian | Aquatic Medicine | DVM Instruction |
|  | Jack, Skip | Professor | DVM, PhD |  | Aquatic Medicine, Pathology | DVM Instruction |
|  | Williams, Matt | Associate Clinical Professor | DVM | ACVP | Clinical Pathology | DVM Instruction/Course Leader |
|  | Bulla, Camilo | Associate Professor | DVM, PhD |  | Clinical Pathology | DVM Instruction |
|  | McBride, Ann Marie | Clinical Instructor | DVM |  | Anatomic Pathology | DVM Instruction |
|  | Baughman, Brittany | Associate Clinical Professor | DVM, MS | ACVP | Anatomic Pathology | DVM Instruction |
|  | Morgan, Timothy W. | Professor | DVM, PhD | ACVP | Anatomic Pathology | DVM Instruction |
|  | Olivier, Alicia | Associate Professor | DVM, PhD | ACVP | Anatomic Pathology | DVM Instruction/Course Leader/Service Chief |
|  | Beam, Jennifer | Assistant Clinical Professor | DVM |  | Food Animal Medicine | DVM Instruction |
|  | Grissett, Gretchen | Assistant Clinical Professor | DVM, MS | ACVIM | Food Animal Medicine | DVM Instruction/Course Leader/Service Chief |
|  | Pesato, Michael | Assistant Clinical Professor | DVM | ABVP (Food Animal) | Food Animal Medicine | DVM Instruction |
|  | Huston, Carla L. | Professor/Director Enhanced Clinical Education | DVM, PhD | ACVPM | Disaster Medicine/Extension | DVM Instruction, Director-ECP Program |
|  | Epperson, Bill | Professor/Head Dept of Patho/Pop Med | DVM, MS | ACVPM (Epidemiology) | Epidemiology | DVM Instruction |
|  | Khaitsa, Margaret | Professor | DVM, PhD | ACVPM | Epidemiology, International | DVM Instruction |
|  | Woolums, Amelia | Professor | DVM, PhD | ACVIM, ACVM | Food Animal Medicine | DVM Instruction |
|  | Bailey, R. Hart | Professor | PhD |  | Food Safety | DVM Instruction |
|  | King, Heath | Associate Clinical Professor | DVM | ACT | Theriogenology (All Species) | DVM Instruction |
|  | Walters, Kevin | Associate Professor | DVM, MS | ACT | Theriogenology (All Species) | DVM Instruction |
|  | Sidelinger, Darcie | Clinical Instructor | DVM |  | Theriogenology (All Species) | DVM Instruction |
|  | Barrett, Christa | Clinical Instructor | DVM | Certified Aquatic Veterinarian | Marine Animal Clinical Services | DVM Instruction (IMMS) |
|  | Moore, Debra | Assistant Clinical Professor | DVM |  | Marine Animal Clinical Services | DVM Instruction (IMMS) |
|  | Eddy, Allison L. | Associate Clinical Professor | DVM, MS | ACVS | Equine Surgery | DVM Instruction |
|  | Swiderski, Cyprianna | Professor | DVM, PhD | ACVIM | Equine Medicine | DVM Instruction |
|  | Fontenot, Robin L. | Associate Clinical Professor | DVM, MS | ACVS | Equine Surgery | DVM Instruction |
|  | Mochal, Cathleen | Associate Clinical Professor | DVM, MS | ACVS | Equine Surgery | DVM Instruction/Course Leader/ Service Chief |
|  | Lopp, Christine | Clinical Instructor | DVM |  | Equine Medicine | DVM Instruction |
|  | Nabors, Ben E. | Assistant Clinical Professor | DVM, PhD |  | Anatomy, Equine Podiatry | DVM Instruction |
|  | Waldridge, Bryan | Associate Clinical Professor | DVM, MS | ACVIM, ABVP | Equine Medicine | DVM Instruction |
|  | Stilwell, Justin | Assistant Clinical Professor | DVM, PhD | ACVP | Anatomic Pathology | DVM Instruction |
|  | Stilwell, Natalie | Assistant Clinical Professor | DVM, PhD |  | Microbiology | DVM Instruction |
|  | Jumper, Issac | Clinical Instructor | DVM |  | Population Medicine | DVM Instruction |
|  |  |  |  |  |  |  |
| Mississ | Vice, Carol C. | Associate Clinical Professor | DVM, MS | ACVP | Anatomic Pathology | DVM Instruction |
|  | Dalton, Martha Frances | Assistant Clinical Professor | DVM | ACVP | Anatomic Pathology | DVM Instruction |
|  | Rose, Heidi | Assistant Clinical Professor | DVM, MS | ACVP | Anatomic Pathology | DVM Instruction |
|  | Yan, Lifang | Assisstant Clinical Professor | PhD |  | Molecular Diagnostics | DVM Instruction |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Poultr | Magee, Danny L. | Clinical Professor/Director Poultry Diag Lab | DVM, MA | ACPV | Poultry Medicine | DVM Instruction/Course Leader |
|  | Banda, Alejandro | Clinical Professor | DVM, PhD | ACPV, ACVM | Poultry Medicine | DVM Instruction |
|  | Pulido, Martha | Associate Clinical Professor | DVM, PhD | ACPV | Poultry Medicine | DVM Instruction |
|  | Armour, Natalie | Associate Clinical Professor | DVM, PhD | ACPV | Poultry Medicine | DVM Instruction |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Aquati | Khoo, Lester H. | Professor/Director Aquatic Diag Lab | DVM, PhD |  | Aquatic Pathology | DVM Instruction |
|  | Gaunt, Patricia S. | Professor | DVM, PhD | ABVT | Toxicology | DVM Instruction |
|  | Griffin, Matthew J. | Research Professor | PhD |  | Molecular Diagnostics | DVM/PhD mentor/summer research advisor |
|  |  |  |  |  |  | (Not included in faculty count) |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Rehired | Bushby, Philip A. | Professor, Marcia Lane End Chair Humane Ethics | DVM, MS | ACVS | Surgery, Shelter Medicine | DVM Instruction |
|  | Tyner, Lee | Professor Emeritus, Former Dir of AHC (Anesthesia) | DVM |  | Special Projects |  |
|  | Boring, J. Gregg | Professor Emeritus, Former Dir Biomedical Research Ctr | DVM, MS | ACVR | Radiation Therapy |  |
|  | Fleming, Sherrill | Associate Professor | DVM | ACVIM, ABVP | Food Animal Medicine | DVM Instruction |
|  | Wilson, Floyd | Clinical Professor | DVM |  | Anatomic Pathology | DVM Instruction |
|  | Meiring, Rich | Clinical Professor | DVM | ACVPM |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
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## APPENDIX STANDARD 9: Curriculum

## Professional Development IV: Learning Objectives <br> Dr. Lance Roasa, Drip Learning Technologies, LLC <br> Career Development for Veterinary Students

1. Develop goals and objectives for job search and career development.
2. Compare and contrast career opportunities within veterinary medicine.
3. Create a plan to identify desirable jobs and compare and contrast potential employment opportunities.
4. Describe desirable characteristics that employers are looking for such as,
a. Emotional intelligence, Loyalty, Stability, Communication skills.
5. Draft career development materials to highlight desirable characteristics.
6. Describe the typical hiring process in veterinary medicine.
7. Create a plan to transition from student to veterinarian.

## Contract Law, Personal Taxation and Compensation for Veterinary Students

1. Understand the components of an employment contract and the effect on personal wellbeing and financial success.
2. Base or Production (including Pro-Sal)
3. Consider the components of the interest list that are relevant to an employment contract and identify legal components.
4. Understand veterinary specific contractual provisions such as restrictive covenants, termination, liquidated damages, exclusivity, and negative accrual.
5. Understand basic employment law concepts such as at-will employment, notice period, unpaid and paid leave, and fringe benefits.

## The Art and Science of Negotiation

1. Identify attributes of professionalism in behavior, appearance, communication, and reputation that lead to the desired attributes of an employer.
2. Compare negotiation in high relationship intense settings versus low relationship intense settings.
3. Create a time and setting for a productive relationship building negotiation.
4. Understand the components of a successful relationship-based negotiation.
5. Draft the first three sentences of employment contract negotiation.

## Medical Recordkeeping for Veterinarians

1. Understand the business and legal reasons to create medical records.
2. Describe the factors associated with admissibility intocourt.
3. Describe the documents that create the medical record.
4. Understand the importance of informed consent and its application in medical records.
5. Create medical records that provide a legal defense to malpractice cases.

## Professional Ethics of the Veterinary Profession

1. Understand the components of moral ethical and legal decision-making including resources for decision making and creating a framework for tough decisions.
2. Learn how to navigate ethical communication with clients and other veterinary professionals.
3. Follow the progression of change from morals to ethics to laws.

## APPENDIX STANDARD 9: Curriculum

## Personal Financial Success and Student Debt for Veterinary Students

## Personal Financial Success

1. Understand the importance of budgeting and saving.
2. Compare the different types of taxation- ordinary income tax, payroll tax and capital gains tax.
3. Compare and contract different kinds of investment retirement accounts, for example, 401k series versus Roth IRA.
4. Learn the key policy points of different types of insurances such as life (term versus whole versus universal), disability, professional liability, and health.
5. Describe the benefits of a health savings account.
6. Create your important papers including the last will and testament, financial power of attorney, living will and advanced directive.

## Student Debt

7. Understand the different Ioan repayment schedules.
8. Learn about the finer points of income-driven repayment programs including debt forgiveness taxation and the stability of programs.
9. Describe the inner workings of public student loan forgiveness.
10. Compare the various state forgiveness programs.
11. Professional Ethics
a. Legal Moral Ethical Decision Making -
b. Ethical Communication with clients and other veterinary professionals
c. The Progression of Change, Morals to Ethics to Laws.
12. Veterinary Medicine and the Law
a. State Veterinary Boards- who does the board serve
b. Standard of Care
c. Civil Lawsuits
d. Diagnosing and Preparing a Cruelty Case for Court
13. Animals and the Law
a. Working up Cruelty Case
b. Colorado Case Example
c. Laws affecting the practice of veterinary medicine
d. Reporting cruelty, Dangerous dog laws
e. Large Scale changes to Veterinary Law


APPENDIX STANDARD 10
Research

Table A

| Fiscal Year | Total college <br> DVM <br> enrollment | *DVM <br> students <br> involved in <br> research <br> (SRE \& VSRI) | Peer reviewed <br> pubs with <br> DVM student <br> as author or <br> co author | DVM/PhD <br> students enrolled | DVM/MS/MPH <br> students <br> enrolled |
| :---: | :--- | :--- | :--- | :--- | :---: |
| $2016-2017$ | 345 | 22 | 8 | 12 | 10 |

*Includes students in the Summer Research Experience and Veterinary Student Research Initiative (CVM 5840)

Table B

|  | Year | Number faculty* | Total Faculty FTE | Faculty in Research 1** | Total Research FTE | Research Faculty teaching in DVM curriculum** | No. unique peer reviewed pubs ${ }^{2}$ | No. book chapters including original findings |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Department of Comparative Biomedical Sciences | FY2017 | 24 | 24 | 22 | 14.6 | 15 | 51 | 4 |
|  | FY2018 | 25 | 25 | 21 | 13.9 | 14 | 52 | 2 |
|  | FY2019 | 24 | 23.5 | 21 | 13.4 | 14 | 54 | 3 |
|  | FY2020 | 26 | 26 | 19 | 12.8 | 13 | 55 | 5 |
|  | FY2021 | 20 | 20 | 18 | 11.7 | 12 | 52 | 3 |
| Department of Clinical Sciences | FY2017 | 46 | 40.85 | 12 | 4.6 | 11 | 35 | 1 |
|  | FY2018 | 51 | 45.35 | 11 | 3.5 | 9 | 41 | 4 |
|  | FY2019 | 52 | 48.95 | 11 | 3.9 | 10 | 51 | 65 |
|  | FY2020 | 62 | 55.05 | 9 | 3.3 | 9 | 34 | 8 |
|  | FY2021 | 65 | 53.55 | 11 | 3.9 | 11 | 34 | 14 |
| Department of Pathobiology and Population Medicine | FY2017 | 58 | 48.6 | 15 | 5.6 | 11 | 41 | 3 |
|  | FY2018 | 55 | 54.7 | 14 | 5 | 13 | 56 | 1 |
|  | FY2019 | 51 | 43.4 | 12 | 4.3 | 11 | 33 | 1 |
|  | FY2020 | 52 | 43.8 | 10 | 3.9 | 11 | 53 | 5 |
|  | FY2021 | 50 | 47.2 | 14 | 6.9 | 10 | 49 | 2 |
| TOTAL CVM | FY2017 | 128 | 113.45 | 49 | 24.9 | 37 | 127 | 8 |
|  | FY2018 | 131 | 125.05 | 46 | 22.3 | 36 | 149 | 7 |
|  | FY2019 | 127 | 115.85 | 44 | 21.5 | 35 | 138 | 69 |
|  | FY2020 | 140 | 124.85 | 38 | 19.9 | 33 | 142 | 18 |
|  | FY2021 | 135 | 120.75 | 43 | 22.5 | 33 | 135 | 19 |

*All faculty, including full- and part-time faculty. **Research faculty are defined as faculty with $\geq 20 \%$ time devoted to research activity.
${ }^{1}$ The number of individual faculty members within each department involved in research, total research FTE, and research productivity (tabulate below for each of the last three years). For example: Dept. A has 35 faculty members with 30 involved in research and 6 FTE assigned to research.
${ }^{2}$ Count of unique publications only - a publication containing multiple co-authors must be counted only once in this table.

## APPENDIX STANDARD 10: Research

Table C

| Department |  | Extramurally Sponsored Federal Grants |  | Extramurally Sponsored State Grants |  | Extramurally Sponsored Private Contracts |  | No. Patents |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | \$ Value* | Number | \$ Value* | Number | \$ Value* |  |
| Department of Comparative Biomedical Sciences | FY2017 | 9 | 1,354,190 | 1 | 13,746 | 6 | 383,593 | 10 |
|  | FY2018 | 14 | 3,156,583 | 0 | 0 | 12 | 1,778,001 | 8 |
|  | FY2019 | 17 | 9,092,839 | 0 | 0 | 7 | 1,356,975 | 2 |
|  | FY2020 | 12 | 6,636,423 | 1 | 1,250,000 | 3 | 1,337,158 | 1 |
|  | FY2021 | 11 | 7,284,311 | 0 | 0 | 2 | 1,319,780 | 2 |
| Department of Clinical Sciences | FY2017 | 0 | 0 | 0 | 0 | 2 | 312,688 | 1 |
|  | FY2018 | 1 | 42,243 | 0 | 0 | 7 | 797,462 | 0 |
|  | FY2019 | 1 | 5,000 | 0 | 0 | 7 | 81,236 | 1 |
|  | FY2020 | 0 | 0 | 0 | 0 | 2 | 22,184 | 0 |
|  | FY2021 | 0 | 0 | 0 | 0 | 1 | 25,017 | 0 |
| Department of Pathobiology and Population Medicine | FY2017 | 2 | 150,626 | 0 | 0 | 5 | 227,568 | 3 |
|  | FY2018 | 3 | 197,068 | 0 | 0 | 1 | 61,171 | 0 |
|  | FY2019 | 5 | 1,704,299 | 0 | 0 | 3 | 93,144 | 0 |
|  | FY2020 | 7 | 494,034 | 0 | 0 | 0 | 0 | 0 |
|  | FY2021 | 9 | 941,358 | 0 | 0 | 4 | 79,434 | 0 |
| TOTAL CVM | FY2017 | 11 | 1,504,816 | 1 | 13,746 | 13 | 924,849 | 14 |
|  | FY2018 | 18 | 3,395,894 | 0 | 0 | 20 | 2,636,634 | 8 |
|  | FY2019 | 23 | 10,802,138 | 0 | 0 | 17 | 1,531,355 | 3 |
|  | FY2020 | 19 | 7,130,457 | 1 | 1,250,000 | 5 | 1,359,342 | 1 |
|  | FY2021 | 20 | 8,225,569 | 0 | 0 | 7 | 1,424,231 | 2 |

*Only count grant, contract, or patent in the year it is awarded to faculty holding a primary ( $\geq 50 \%$ ) appointment within the college.
Table D. DVM Student Exposure to Research-Related Topics in the Curriculum

|  | Acquisition and evaluation of scientific literature | Experimental and non experimental research design | Critical analysis of data | Scientific Writing | Write research proposal | Submit manuscript for publication* | Hands on experience in bench, clinical, or field research | Interaction with graduate students | Acquire, evaluate, and use new knowledge |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Years 1 and 2 |  |  |  |  |  |  |  |  |  |
| Epidemiology | X | X | X |  |  |  |  | X | X |
| Immunology | X | X | X |  |  |  |  | X | X |
| Infectious Agents | X | X | X |  |  |  |  |  |  |
| Preventive Medicine | X | X | X |  |  |  |  | X | X |
| Professional Development | X |  | X |  |  |  |  | X | X |
| Years 3 and 4 |  |  |  |  |  |  |  |  |  |
| AERC | X |  |  |  |  |  |  |  | X |
| Anesthesia | X |  |  |  |  |  | X | X | X |
| CVS | X | X | X |  |  |  | X |  | X |
| CPC | X |  | X | X |  | X |  | X | X |
| Diagnostic Services | X |  |  | X |  |  |  | X | X |
| Equine Med and Surg | X |  |  |  |  |  | X | X | X |
| Field Services/Ambulatory | X |  |  |  |  |  |  |  | X |
| Food Animal | X | X | X |  |  |  | X |  | X |
| ICU | X |  |  |  |  |  |  |  | X |
| Internal Med (SA) | X |  |  |  |  |  | X | X | X |
| Radiology | X |  |  | X |  |  |  |  | X |
| Surgery | X | X |  |  |  |  | X | X | X |
| VSC- Neuro/Ophtho | X | X |  |  |  |  | X | X | X |
| Year 4 research elective course (CVM 5840-Veterinary Research) | X | X | X | X | +/- | +/- | X | X | X |
| Population Medicine | X | X | X |  |  |  | +/- | X | X |
| Summer Research Experience | X | X | X | X | X | X | X | X | X |

[^2]Ulrich MR, Fontenot RL, Bowser J. "Heritable Equine Regional Dermal Asthenia: A Review." The Remuda 2015. www.texasequineva.com, 16-24.
Morris SL, Nabors BE, Gambino JM, Fontenot RL. "What is Your Diagnosis? Solar Keratoma in a Horse". JAVMA 2017; 250: 841-844.
Griffin C, Mochal-King CA, Grissett GP, et.al. "Suprascapular Nerve Decompression for Treatment of Neuropathy in a Bucking Bull." JAVMA 2019; 255: 591-594.
Table E: Mississippi State University College of Veterinary Medicine DVM/PhD graduates

| Student | Mentor | Completion dates | Current position | Dissertation title |
| :---: | :---: | :---: | :---: | :---: |
| Lauren Bright | Swiderski | DVM 2014, PhD 2015 <br> (started 2008) | Completed lab animal residency at University of Pennsylvania, now associate director for laboratory animal care at Rutgers University | Validating pasture heaves as an equine model of neutrophilic asthma: a systems biology approach. |
| Claire Fellman | Mackin/Archer | DVM 2011, PhD 2016 <br> (started 2008) | DACVIM, DACVCP, assistant professor at Cummings School of Veterinary Medicine, Tufts University | Assessment of the pharmacodynamic effects of cyclosporine in dogs |
| Courtney Hunter | Swiderski | DVM 2017, PhD 2018 <br> (started 2011) | Lab animal residency at University of Michigan, accepted Lab animal vet position at Vanderbilt | Funny channel signaling in equine airway disease |
| Caitlin Riggs | Mackin/Archer | DVM 2017, PhD 2017 (started 2011) | Private practice | Development of a pharmacodynamic assay to assess the effect of cyclosporine in the canine patient |
| Shauna Trichler | Bulla | DVM 2017, PhD 2017 <br> (started 2011) | U.S. Army active duty | Platelet-cancer cell interactions [electronic book]: Insights from the canine model |
| Sherry Blackmon | Wan | DVM 2018, PhD 2019 (started 2012) | Supervisory Veterinary Medical Officer, USDA | Zoonotic risk of emerging influenza viruses from domestic animals |
| Amanda Cain | Hopper | DVM 2018, PhD 2016 (started 2012) | Private practice | Evaluation of the effects of heifer development method on subsequent reproductive performance and progeny growth |
| Jim Nichols | Kaplan | DVM 2016, PhD 2020 <br> (started 2012) | MD Anderson Cancer Center (Houston), postdoc | Exploring the immunosuppressive properties of various agents in the experimental autoimmune encephalomyelitis models of multiple sclerosis |
| Jaime Rutter | Seo | $\begin{aligned} & \text { DVM 2020, PhD } 2021 \\ & \text { (started 2013) } \end{aligned}$ | Post doc at MSU (funded by USDA ARS NBAF agreement) | Characterizing human receptor-mediated cytotoxicity by staphylococcal bi-component leucocidins in S. aureus pathogenesis |
| Brittany Szafran* | Kaplan/Ross | $\begin{aligned} & \text { DVM 2017, PhD } 2021 \\ & \text { (started 2013) } \end{aligned}$ | Associate Service Fellow at CDC | The Role of the Endocannabinoid System in Immune Homeostasis with an Emphasis on the Immune Effects of Carboxylesterase Inhibition by Chlorpyrifos in Murine Lung Tissue |
| Matthew Scott | Woolums | DVM 2018, PhD 2021 <br> (started 2014) | Assistant professor at West Texas A\&M CVM | Utilization of bioinformatic and next generation sequencing approaches for the discovery of predictive markers and molecular pathways involved in bovine respiratory disease | Medicine



## Learning Objectives for the Nine Clinical Competencies

1. Comprehensive patient diagnosis (problem-solving skills), appropriate use of diagnostic testing, and record management

- When confronted with a problem(s) in an individual animal or within a population of animals, the student will identify the problem(s).
- A student will develop an appropriate diagnostic plan based upon the problems, differential diagnoses, and the economic limitations imposed by the owner.
- A student will observe, identify, and interpret abnormalities in laboratory samples involving hematology, clinical chemistry, cytology, and urinalysis.
- A student will maintain thorough, accurate, and legible (or electronic) medical records, e.g., problem-oriented medical records using the SOAP format that document the following:
a. patient or population progress;
b. new data including test results and medications administered; and
c. any changes in problems, diagnoses, therapeutic plans, or management plans.

2. Comprehensive treatment planning including patient referral when indicated

- A student will make treatment or management decisions based on diagnostic evaluation, patient factors, clinical knowledge, treatment availability, and owner input.
- A student will recognize and respond appropriately to patient-care situations that require special responsibilities, skills, equipment, and goals.
- A student will recognize personal limitations in technical and psychomotor skills, and when appropriate, refer patients to those with more refined skills or access to necessary equipment and other resources.


## 3. Anesthesia and pain management, patient welfare

- A student will recognize the similarities, as well as the unique differences, between species with regard to anesthetic management.
- A student will recognize situations that require special support as in complex illnesses, chronic pain, permanent alterations or disabilities, euthanasia decisions, and clients with extreme attachment to their pet(s).
- A student will understand animal anatomy and physiology and be able to design anesthetic plans for a variety of animal species with normal or altered physiological function.
a. Be able to maintain an anesthetic record, calculate drug dosages and volumes, IV fluid volumes and administration rates, and anesthetic gas flow rates
b. Be able to assemble and operate an inhalant anesthetic machine and other equipment necessary to provide safe anesthesia
c. Develop the technical skills to restrain animals, administer medications, monitor depth of anesthesia, place IV catheters and endotracheal tubes
d. Be able to troubleshoot and manage patient problems in the perioperative period


## 4. Basic surgery skills and case management

- A student will understand and demonstrate principles of aseptic surgical techniques.
- A student will perform and demonstrate appropriate surgical skills, tissue handling, hemostasis and surgical approaches and closures.
- A student will identify all anatomical structures associated with surgical procedures.
- A student will be able to discuss and perform the following procedures:
- calculate anesthetic drug dosages and anesthesia protocols
- canine and feline spay
- canine, feline, and equine castration
- early-age canine and feline spay/neuter
- ruminant dehorn and castration
- skin laceration and repair


## APPENDIX STANDARD 11: Outcomes Assessment

## 5. Basic medicine skills and case management

- A student will generate a list of differential diagnoses for each problem identified.
- A student will know the indications, contraindications, appropriate route of administration, frequency of administration and duration of administration for prescribed medications.


## 6. Emergency and intensive care case management

- A student will recognize subtle changes in patient conditions through careful monitoring of vital signs and mental status
- A student will have the opportunity to observe or perform the following procedures, either in a laboratory setting (Year-3 small animal critical care lab) or with AHC/AERC/VSC patients: IV catheter placement, endotracheal tube placement, chest tube placement, pass a stomach tube, thoracocentesis, proper ECG lead placement, intraosseous needle or catheter placement, internal and external cardiac massage with CPR, cerebrospinal fluid collection, epidural, urethral catheterization (male and female), gastric lavage, tracheostomy, and venous cutdown.

7. Understanding of health promotion, and biosecurity, prevention and control of disease including zoonoses and principles of food safety

- A student will learn appropriate emergency responses to natural disasters and intentional disasters, including disaster management in animal systems.
- A student will understand the importance of zoonosis based on principles of epidemiology and epizootology.
- A student will recognize situations which require immediate action when potential public health issues are encountered, such as: notification of appropriate federal or state authorities, quarantine or isolation of affected animals, and appropriate methods of necropsy or carcass disposal.

8. Ethical and professional conduct; communication skills including those that demonstrate an understanding and sensitivity to how clients' diversity and individual circumstance can impact health care

- A student will effectively use verbal and written communication to explain the following to clients:
a. the nature of the problem(s);
b. the cost, risks, efficacy and value of the diagnostic work-up;
c. the diagnostic hypotheses, working diagnosis, or established diagnosis;
d. the prognosis with and without therapy;
e. therapeutic options;
f. the cost, risk and potential value of each therapeutic intervention; and
g. client responsibilities in the management and monitoring of the situation.
- A student will understand the principles of making ethical medical decisions. When making these decisions, a student will consider the clients' personal circumstances and be aware of the impact those circumstances will have on the patient's health care.
- A student will be cognizant of the impact of clients' diversity when providing care for a patient.
- A student will conduct himself/herself in a professional manner in accordance with the "Principles of Veterinary Medical Ethics."
- Students will project a professional image in behavior, dress, grooming, speech, and interpersonal relationships consistent with accepted professional standards.

9. Critical analysis of new information and research findings relevant to veterinary medicine

- A student will become knowledgeable in evidence-based veterinary medicine.
- A student will be able to find appropriate resources (printed, electronic, human, training) and effectively resolve inadequacies.
- Whenever a student encounters a research report they will be able to do the following:
a. Explain why the study is observational or experimental.
b. Describe the major advantages and disadvantages of the study design.
c. Define the following descriptive statistics: mean, median, mode, range, variance, standard deviation.
d. Define the following statistical terms: critical value, confidence level, significance level, power, p-value, effect size, confidence interval.


## APPENDIX STANDARD 11: Outcomes Assessment

Assessment of Clinical Competencies in Year-1 and Year- 2 (Phase 1 of Curriculum)

| Phase I Core Courses | Clinical Competencies Introduced (I) or Assessed (A) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \#1 | \#2 | \#3 | \#4 | \#5 | \#6 | \#7 | \#8 | \#9 |
| CVM 5013 Veterinary Neuroscience | A |  | 1 |  | A |  |  |  | I |
| CVM 5011 Professional Development I |  |  | I |  |  |  |  | I | I |
| CVM 5033 Immunology | I |  |  |  | I |  |  |  | I |
| CVM 5023 Infectious Agents I | I |  |  |  |  |  | A |  |  |
| CVM 5036 Veterinary Physiology | A |  |  |  |  |  |  |  | A |
| CVM 5046 Veterinary Anatomy I | A |  |  | I | 1 |  |  |  |  |
| CVM 5073 Veterinary Histology | 1 |  |  |  |  |  |  |  | I |
| CVM 5163 Veterinary Parasitology | A |  |  |  | A |  | A |  | I |
| CVM 5021 Professional Development II | I | I | I |  |  |  | A | A |  |
| CVM 5022 Veterinary Epidemiology | A |  |  |  |  |  | A |  | I |
| CVM 5044 Intro to Veterinary Pathology | A |  |  |  | I |  | I |  | I |
| CVM 5072 Veterinary Anatomy II | A |  |  | A |  |  |  |  |  |
| CVM 5223 Pharmacology I | A | A |  |  | A | A | I |  |  |
| CVM 5193 Infectious Agents II | A |  |  |  |  |  | A |  | I |
| CVM 5213 Intro to Veterinary Anesthesiology | A | A | A |  | 1 | A |  |  | I |
| CVM 5123 Veterinary Clinical Pathology | I/A |  |  |  | A |  |  |  | A |
| CVM 5553 Pharmacology II | A | I | A |  | A | A | A |  | I |
| CVM 5153 Equine Medicine and Surgery I | A | I/A | A | I | A | I/A | A | I |  |
| CVM 5123 Theriogenology | A | A |  | A | I | I/A | A | I |  |
| CVM 5152 Veterinary Toxicology | A | I |  |  |  | A | A |  |  |
| CVM 5186 Small Animal Medicine and Surgery I | A | A | A | A | A | A | A |  | I |
| CVM 5111 Professional Development III |  |  |  |  |  |  | A |  |  |
| CVM 5133 Veterinary Preventive Medicine |  |  |  |  |  |  | A |  | A |
| CVM 5173 Equine Medicine and Surgery II | A | A |  | A | A | A | A |  |  |
| CVM 5162 Diagnostic Imaging | A |  |  | I | A | A |  |  | I |
| CVM 5175 Food Animal Medicine and Surgery | A | A | A | A | A | A | A |  |  |
| CVM 5183 Special Species | A | I | 1 | A | A | A | A |  |  |
| CVM 5196 Small Animal Medicine and Surgery II | A | A |  | A | A | A | A |  |  |
| CVM 5121 Professional Development IV |  |  |  |  |  |  |  | A |  |

## APPENDIX STANDARD 11: Outcomes Assessment

Assessment of Clinical Competencies in Year-3 and Year-4 (Phase 2 of Curriculum). Number of individual assessments lined to each clinic: competency across all required rotations.

| Phase II Core Clinical Rotations | COE Clinical Competencies Assessed |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \#1 | \#2 | \#3 | \#4 | \#5 | \#6 | \#7 | \#8 | \#9 |
| Anesthesiology | 4 | 2 | 4 |  | 6 |  |  | 9 | 3 |
| Laboratory Services | 3 |  |  | 1 |  |  |  | 2 | 3 |
| Diagnostic Imaging | 6 | 2 |  |  | 7 |  |  | 20 | 3 |
| Community Veterinary Services | 6 | 2 |  |  | 7 |  |  | 20 | 1 |
| Small Animal Surgery | 5 | 2 |  | 1 | 4 |  |  | 12 |  |
| Equine Medicine and Surgery | 2 |  |  | 1 | 1 | 2 | 2 | 4 | 1 |
| Food Animal/ Theriogenology | 4 |  |  | 1 | 5 | 2 |  | 6 |  |
| Population Medicine | 1 | 1 |  |  | 1 |  | 1 | 2 | 1 |
| Internal Medicine | 2 | 3 |  |  | 3 |  |  | 8 | 1 |
| Emergency/ ICU | 1 | 1 |  |  | 1 | 1 | 7 | 2 |  |
| Clinical Pathologic Conference (Sr. Seminar) |  |  |  |  |  |  |  | 1 | 1 |
| Ambulatory | 1 | 1 |  | 1 | 3 |  |  | 7 | 1 |
| Veterinary Specialty Center | 1 | 1 |  |  | 5 |  |  | 2 | 1 |
| Externships (not required) | 9 | 2 | 3 | 3 | 5 | 1 | 1 | 14 | 1 |
| Totals | 45 | 17 | 7 | 9 | 44 | 6 | 11 | 109 | 15 |

Scoring Rubric for Clinical Rotations

| Scoring Rubric for Clinical Rotations <br> Numerical <br> Score | Rating |  |
| :---: | :---: | :--- |
| 10 | Outstanding | The student consistently performs at or demonstrates a level of knowledge, problem- <br> solving skills, abilities, and/or behaviors that routinely exceeds the level of most students <br> ready to enter small animal clinical practice. |
| 9 | Very Good | The student consistently performs at or demonstrates a level of knowledge, problem- <br> solving skills, abilities, and/or behaviors of most students ready to enter practice. The <br> student occasionally exceeds expectations. |
| 8 | Good | The student meets basic expectations and generally performs at or demonstrates a level of <br> knowledge, problem-solving skills, abilities, and/or behaviors of most students ready to <br> enter small animal clinical practice. |
| 7 | Meets Expectations | The student meets minimal expectations and generally performs at or demonstrates a level <br> of knowledge, problem-solving skills, abilities, and/or behaviors of most students ready to <br> enter small animal clinical practice. This area needs continued refinement. |
| 6 | Needs Improvement | The student inconsistently meets minimal expectations and only occasionally performs at <br> or demonstrates a level of knowledge, problem-solving skills, abilities, and/or behaviors of <br> most students ready to enter small animal clinical practice. This area needs consistent <br> improvement. |
| $<6$ | Unacceptable | The student fails to meet minimal expectations and does not perform at or demonstrate a <br> level of knowledge, problem-solving skills, abilities, and/or behaviors of most students <br> ready to enter small animal clinical practice. This area requires significant improvement. |

## APPENDIX STANDARD 11: Outcomes Assessment

Threshold Events and Performances in Clinical Rotations

| Core Clinical Rotations | \# Threshold Events | Brief Description of Threshold Event(s)/Performance |
| :---: | :---: | :---: |
| Anesthesia | 2 | 1) Each student must demonstrate the ability to safely and competently plan and carry out an anesthetic procedure on a clinical patient without direct faculty/staff assistance (mini-CEX). <br> 2) Written examination $\geq 60 \%$ |
| Laboratory Services | 11 | 1) Necropsy reports $\geq 65 \%$ <br> 2) Written anatomic pathology examination $\geq 65 \%$ <br> 3) Necropsy case log $\geq 65 \%$ <br> 4) Written clinical pathology examination $\geq 65 \%$ <br> 5) Pathology knowledge base $\geq 65 \%$ <br> 6) Necropsy technique (DOPS) $\geq 65 \%$ <br> 7) Case responsibility/work ethic $\geq 65 \%$ <br> 8) Scientific curiosity $\geq 65 \%$ <br> 9) Participation $\geq 65 \%$ <br> 10) Professionalism $\geq 65 \%$ <br> 11) Friday case presentation $\geq 65 \%$ |
| Diagnostic Imaging | 1 | 1) Written examination on evaluation and interpretation of 40 radiographic cases (NAVLE format $\geq 60 \%$ ) and completion of "safety and techniques" quiz |
| Community Veterinary Services | 8 | 1) Overall initiative $\geq 65 \%$ <br> 2) Patient Care/Treatment $\geq 65 \%$ <br> 3) Attendance/Punctuality $\geq 65 \%$ <br> 4) Projects a professional image in behavior $\geq 65 \%$ <br> 5) Attitude $\geq 65 \%$ <br> 6) Working knowledge $\geq 65 \%$ <br> 7) Written examination on principles of small animal primary care $\geq 65 \%$ <br> 8) Passing of the clinical competency assessment (mini-CEX) |
| Small Animal Surgery | 2 | 1) Management of cases/dependability $\geq 60 \%$ <br> 2) Written examination $\geq 60 \%$ |
| Equine Medicine and Surgery | 9 | 1) Written and practical techniques examination (OSCE) $\geq 60 \%$ (combined) <br> 2) Basic and applied knowledge $\geq 60 \%$ <br> 3) Analytical (problem-solving) skills $\geq 60 \%$ <br> 4) Technical skills $\geq 60 \%$ <br> 5) Health promotion, disease prevention, biosecurity, zoonosis $\geq 60 \%$ <br> 6) Care and treatment of emergency and critical care patients $\geq 60 \%$ <br> 7) Strong appreciation of research in veterinary medicine $\geq 60 \%$ <br> 8) Communication skills $\geq 60 \%$ <br> 9) Professional values, behaviors, and ethics $\geq 60 \%$ |

## APPENDIX STANDARD 11: Outcomes Assessment

| Food Animal/ Theriogenology | 4 | 1) Written examination on clinical case material from hospitalized patients seen during the rotation $\geq 60 \%$ <br> 2) Practical techniques examination (OSCE) $\geq 60 \%$ <br> 3) Student rounds presentations $\geq 60 \%$ <br> 4) Faculty/ house officer evaluation $\geq 60 \%$ |
| :---: | :---: | :---: |
| Population Medicine | 6 | 1) Working knowledge $\geq 50 \%$ <br> 2) Professional values, behaviors, and ethics $\geq 50 \%$ <br> 3) Practical understanding of disease control and prevention $\geq 50 \%$ <br> 4) Basic understanding of spreadsheet functions $\geq 50 \%$ <br> 5) Completion of USDA Accreditation training <br> 6) Written examination |
| Internal Medicine | 7 | 1) Patient care $\geq 60 \%$ <br> 2) Technical skills $\geq 60 \%$ <br> 3) Clinical skills assessment- History, PE, and Plan (DOPS) $\geq 60 \%$ <br> 4) Clinical skills assessment- Bloodwork assessment (DOPS) $\geq 60 \%$ <br> 5) Written examination $\geq 60 \%$ |
| Emergency/ ICU | 10 | 1) Professional conduct (values, behavior, ethics) $\geq 60 \%$ <br> 2) Basic and applied knowledge base (pre-clinical, self-education, record keeping) $\geq 60 \%$ <br> 3) Technical skills $\geq 60 \%$ <br> 4) Emergency and critical patient care $\geq 60 \%$ <br> 5) Communication skills (interpretive, written, and verbal) $\geq 60 \%$ <br> 6) Knowledge of zoonotic diseases $\geq 60 \%$ <br> 7) Completion of procedures related to emergency and critical care <br> 8) Three case summaries from patients seen on the rotation <br> 9) ER patient case log <br> 10) Written examination $\geq 75 \%$ |
| Ambulatory | 8 | 1) Written pre-rotation examination <br> 2) Written final examination <br> 3) In depth mock herd and individual animal investigation cases <br> 4) Written case log of patients seen and procedures performed on the rotation <br> 5) Medical knowledge <br> 6) Clinical skills <br> 7) Communication skills <br> 8) Professional behavior |
| Veterinary Specialty Center | 6 | 1) Assessment of a journal article on an assigned topic based on a case seen on the rotation <br> 2) Practical neurologic techniques assessment (DOPS) <br> 3) MRI safety quiz and associated paperwork <br> 4) Ophthalmology topic presentation <br> 5) Practical ophthalmology techniques assessment (DOPS) <br> 6) Written final examination |
| Animal Emergency and Referral Center (AERC) | 1 | 1) Practical patient assessment (mini-CEX) |

Student Evaluations by Externship Mentor
1 = Needs significant improvement
$3=$ Expected performance
$4=$ Performance exceeded expectations
5 = Excellent performance
$N / A=$ Not applicable or could not be evaluated

Student Evaluations by Externship Mentor
$1=$ Needs significant improvement: not passing
$\mathbf{2}=$ Performance below expectations; acceptable but needs improvement, developing entry level competency
3 = Expected performance: consistently satisfactorily, entry level competency
5 = Excellent/superior performance: consistently excellent and above average N/A = Not applicable or unable to assess


Performance
exceeded

\% Expected
performance


## Senior Exit Survey Results

| (5 Point Likert Scale: 1 Strongly Agree, 2 Agree, 3 Neither Agree nor Disagree, 4 Disagree, 5 Strongly Disagree) | $\begin{aligned} & 2017 \\ & \mathrm{n}=79 \end{aligned}$ | $\begin{aligned} & 2018 \\ & n=79 \end{aligned}$ | $\begin{aligned} & 2019 \\ & n=90 \end{aligned}$ | $\begin{aligned} & 2020 \\ & n=89 \end{aligned}$ | $\begin{aligned} & 2021 \\ & n=91 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Overall, I am satisfied with my veterinary medical education. | 1.67 | 1.65 | 1.78 | 1.83 | 1.64 |
| I am satisfied with the clinical skills I have learned. | 1.67 | 1.57 | 1.74 | 1.68 | 1.67 |
| The College faculty/staff are concerned with providing a quality/excellent education. | 2.11 | 1.96 | 2.09 | 1.89 | 1.89 |
| As a student, I had adequate access to faculty/administration concerning my education. | 1.96 | 1.71 | 1.88 | 1.79 | 1.87 |
| The Phase 1 courses adequately prepared me to enter clinics and be successful. | 2.15 | 2.16 | 2.16 | 2.04 | 2.15 |
| My veterinary education has provided me broad biomedical training applicable to many disciplines. | 2.01 | 1.94 | 2.14 | 1.86 | 1.88 |
| My veterinary education provided me with adequate access to primary care cases. | 1.82 | 1.76 | 1.89 | 1.82 | 2.08 |
| I had adequate access to hands-on experiences with live animals. | 1.57 | 1.52 | 1.66 | 1.58 | 1.58 |
| The workload of the veterinary curriculum was appropriate for the education. | 2.15 | 2.30 | 2.19 | 2.26 | 2.58 |
| There were adequate opportunities to provide feedback/suggestions for improvement in the student experience/curriculum. | 2.62 | 2.48 | 2.50 | 2.32 | 2.51 |
|  |  |  |  |  |  |
| I was provided adequate information about career opportunities available. | 2.05 | 1.72 | 1.84 | 1.89 | 1.69 |
| My veterinary education provided me with a good knowledge of the financial considerations of my education and veterinary practice. | 2.52 | 2.23 | 2.28 | 2.25 | 2.11 |
| My veterinary education provided me with adequate problem-solving skills. | 1.86 | 1.63 | 1.81 | 1.79 | 1.71 |
| My veterinary education provided me with adequate diagnostic skills. | 1.84 | 1.80 | 1.86 | 1.95 | 1.72 |
| My veterinary education provided me with adequate anesthesia and pain manage | 1.65 | 1.54 | 1.68 | 1.79 | 1.80 |
| My veterinary education provided me with adequate surgery skills. | 2.03 | 1.92 | 2.23 | 2.25 | 2.16 |
| My veterinary education provided me with adequate medical skills/case management. | 1.94 | 1.73 | 1.86 | 1.79 | 1.78 |
| My veterinary education provided me with adequate knowledge of emergency/critical care case management. | 2.10 | 2.27 | 2.37 | 2.66 | 2.20 |
| My veterinary education provided me with adequate knowledge of patient referral decisions/options. | 2.13 | 1.78 | 1.96 | 1.89 | 1.96 |
| My veterinary education provided me with adequate knowledge of disease prevention/health promotion. | 2.10 | 1.78 | 1.83 | 1.92 | 1.80 |
| My veterinary education provided me with adequate knowledge regarding zoonosis/food safety. | 2.08 | 1.94 | 2.00 | 2.01 | 2.09 |
| My veterinary education provided me with adequate knowledge for patient welfare. | 1.82 | 1.59 | 1.83 | 1.78 | 1.71 |
| I was provided a strong appreciation for the importance of research in the provision of veterinary care. | 2.19 | 1.95 | 2.24 | 2.10 | 1.92 |
| I was provided with a good working knowledge of ethical conduct and professionalism. | 2.31 | 1.72 | 1.98 | 1.74 | 1.76 |
| My veterinary education provided me adequate opportunities to improve my communications (both verbal and written). | 1.77 | 1.53 | 1.69 | 1.63 | 1.67 |
| The process for selecting electives was efficient/well structured. | 2.23 | 2.16 | 2.48 | 2.61 | 2.14 |
| Overall, my clinical rotations prepared me well for a career in a clinical discipline. | 1.81 | 1.72 | 1.90 | 1.84 | 1.90 |
| Overall, my veterinary education provided me with a good working knowledge of comprehensive patient diagnosis and demonstration of problem-solving skills. | 1.81 | 1.62 | 1.79 | 1.75 | 1.73 |
| The veterinary curriculum provided adequate preparation for success on the NAVLE. | 1.81 | 1.62 | 1.66 | 1.83 | 1.74 |
| The overall quality of my interactions with the college administrative and support services was satisfactory. | 2.39 | 2.22 | 2.38 | 1.99 | 2.36 |
| I would recommend Mississippi State CVM to a friend or relative considering veterinary school. | 1.74 | 1.71 | 2.01 | 1.92 | 1.88 |
| Overall evaluation of my education experience at Mississippi State CVM was... 1) excellent 2) very good 3) good 4) fair 5) poor. | 2.01 | 1.99 | 2.17 | 2.12 | 2.19 |

## APPENDIX STANDARD 11: Outcomes Assessment

## Graduating Seniors Self-Assessment of AAVMC's Entrustable Professional Activities (EPAs)

| Students use a 5 pt. Likert scale (strongly agree to strongly disagree) to reflect their agreement with each of the following statements: | $\begin{gathered} \text { c/o } 2021 \\ n=92 \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2020 \\ n=89 \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2019 \\ n=90 \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2018 \\ n=78 \\ \hline \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SA+A | D+SD | SA+A | D+SD | SA+A | D+SD | SA+A | D+SD |
| EPA 1: With limited/no supervision, I feel competent in my ability to gather a history, perform an examination, and create a prioritized diagnosis list when presented with a routine veterinary patient. | 98\% | 0\% | 97\% | 1\% | 98\% | 0\% | 100\% | 0\% |
| EPA 2: With limited/no supervision, I feel competent in my ability to develop a diagnostic plan and interpret results when presented with a routine patient. | 96\% | 0\% | 93\% | 1\% | 92\% | 2 | 94\% | 0\% |
| EPA 3: With limited/no supervision, I feel competent in my ability to develop and implement a management/treatment plan for a routine patient. | 92\% | 1\% | 88\% | 1\% | 86\% | 1\% | 96\% | 0\% |
| EPA 4: With limited/no supervision, I feel competent in my ability to recognize a patient requiring urgent care and initiate proper evaluation and management. | 87\% | 2\% | 89\% | 6\% | 86\% | 3\% | 91\% | 3\% |
| EPA 5: With limited/no supervision, I feel competent in my ability to formulate relevant questions and retrieve evidence/information to advance care. | 95\% | 0\% | 97\% | 0\% | 94\% | 0\% | 97\% | 0\% |
| EPA 6: With limited/no supervision, I feel competent in my ability to perform a common surgical procedure (OVH, castration) on a stable patient, including preand post-operative management. | 97\% | 0\% | 93\% | 1\% | 96\% | 1\% | 96\% | 0\% |
| EPA 7: With limited/no supervision, I feel competent in my ability to perform general anesthesia and recovery of a stable patient including monitoring and support. | 95\% | 0\% | 92\% | 2\% | 92\% | 0\% | 95\% | 1\% |
| EPA 8: With limited/no supervision, I feel competent in my ability to formulate recommendations for preventive healthcare for both an individual and a herd/population of animals. | 80\% | 4\% | 84\% | 2\% | 90\% | 2\% | 82\% | 1\% |

## Employer's Assessment of AAVMC's Entrustable Professional Activities (EPAs)

| (Rate performance 0-100; Score reported reflects the mean) | $\begin{gathered} \text { c/o } 2020 \\ n=35 \end{gathered}$ | $\begin{gathered} c / o 2019 \\ n=18 \end{gathered}$ | $\begin{gathered} c / o \quad 2018 \\ n=19 \end{gathered}$ | $\begin{gathered} c / o ~ \\ n=13 \\ \hline \end{gathered}$ | $\begin{gathered} \text { c/o } 2016 \\ \mathrm{n}=11 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EPA 1: With limited supervision, the employee is able to competently gather a history, perform an examination, and create a prioritized diagnosis list when presented with a routine veterinary patient. | 86 | 87 | 95 | 89 | 94 |
| EPA 2: With limited supervision, the employee is competent in their ability to develop a diagnostic plan and interpret results when presented with a routine patient. | 86 | 85 | 95 | 88 | 94 |
| EPA 3: With limited supervision, the employee is competent in their ability to develop and implement a management/treatment plan for a routine patient. | 86 | 87 | 95 | 87 | 95 |
| EPA 4: With limited supervision, the employee is competent in their ability to recognize a patient requiring urgent care and initiate proper evaluation and management. | 90 | 87 | 96 | 90 | 94 |
| EPA 5: With limited supervision, the employee is competent in their ability to formulate relevant questions and retrieve evidence/information to advance care. | 85 | 87 | 93 | 88 | 95 |
| EPA 6: With limited supervision, the employee is competent in their ability to perform a common surgical procedure (OVH, castration) on a stable patient, including pre- and postoperative management. | 86 | 86 | 91 | 87 | 88 |
| EPA 7: With limited supervision, the employee is competent in their ability to perform general anesthesia and recovery of a stable patient including monitoring and support. | 88 | 83 | 93 | 87 | 94 |
| EPA 8: With limited supervision, the employee is competent in their ability to formulate recommendations for preventive healthcare for both an individual and a herd/population of animals. | 89 | 82 | 91 | 86 | 92 |

Entrustable Professional Activities (EPAs) with corresponding COE clinical competencies

|  |  |  |  |  |  |  |  |  | COE\#1 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBVE EPA \#1 | COE\#2 | COE\#3 | COE\#4 | COE\#5 | COE\#6 | COE\#7 | COE\#8 | COE\#9 |  |
| CBVE EPA \#2 | X | X | X | X | X | X |  | X |  |
| CBVE EPA \#3 | X |  |  |  |  |  |  | X | X |
| CBVE EPA \#4 | X | X | X | X | X | X | X | X | X |
| CBVE EPA \#5 | X | X | X | X | X | X |  | X |  |
| CBVE EPA \#6 | X |  |  |  |  |  |  | X | X |
| CBVE EPA \#7 | X | X | X | X | X | X |  |  |  |
| CBVE EPA \#8 | X | X | X | X | X | X |  | X |  |

## APPENDIX STANDARD 11: Outcomes Assessment

## Alumni Survey Information

| Alumni Survey Data (5 pt. Likert Scale: Strongly Agree to Strongly Disagree) | $\begin{aligned} & 2016 \\ & N=31 \\ & A / S A \end{aligned}$ | $\begin{aligned} & 2017 \\ & N=33 \\ & A / S A \end{aligned}$ | $\begin{aligned} & 2018 \\ & \mathrm{~N}=31 \\ & \mathrm{~A} / \mathrm{SA} \end{aligned}$ | $\begin{aligned} & 2019 \\ & N=50 \\ & A / S A \end{aligned}$ | $\begin{aligned} & 2020 \\ & \mathrm{~N}=64 \\ & \mathrm{~A} / \mathrm{SA} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Overall, I am satisfied with the veterinary education I received. (Rate 0-100) | 92 | 88 | 91 | 87 | 85 |
| I am satisfied with the clinical skills I acquired in veterinary school. | 97\% | 100\% | 100\% | 96\% | 95\% |
| The College's faculty/staff were concerned with providing a quality education. | 100\% | 97\% | 94\% | 92\% | 88\% |
| Phase 1 courses adequately prepared me to enter clinics \& be successful. | 97\% | 91\% | 90\% | 86\% | 84\% |
| The veterinary education provided me with broad biomedical training which has been applicable to many disciplines. | 94\% | 91\% | 84\% | 78\% | 83\% |
| The veterinary education provided me with adequate access to primary care cases. | 94\% | 84\% | 90\% | 88\% | 77\% |
| My veterinary education provided me with adequate hands-on experiences with live animals. | 97\% | 100 | 100\% | 100\% | 94\% |
| The workload of the curriculum was appropriate for the education. | 94\% | 94\% | 87\% | 82\% | 78\% |
| I was provided adequate information about various career opportunities. | 94\% | 81\% | 94\% | 90\% | 89\% |
| My veterinary education provided me a good knowledge of financial considerations of my education and practice. | 68\% | 63\% | 74\% | 74\% | 67\% |
| My veterinary education provided me with adequate problem-solving skills. | 97\% | 88\% | 97\% | 96\% | 94\% |
| My veterinary education provided me with adequate diagnostic skills. | 100 | 94\% | 97\% | 90\% | 89\% |
| My veterinary education provided me with adequate anesthesia and pain management skills. | 100 | 97\% | 100\% | 86\% | 91\% |
| My veterinary education provided me with adequate surgery skills. | 90\% | 91\% | 94\% | 82\% | 80\% |
| My veterinary education provided me with adequate medical/case management skills. | 97\% | 97\% | 94\% | 90\% | 83\% |
| My veterinary education provided me with adequate knowledge of emergency/critical care case management. | 94\% | 81\% | 81\% | 82\% | 56\% |
| My veterinary education provided me with adequate knowledge of patient referral decisions/options. | 87\% | 97\% | 94\% | 92\% | 86\% |
| My veterinary education provided me with adequate knowledge of disease prevention/health promotion. | 94\% | 88\% | 100\% | 88\% | 92\% |
| My veterinary education provided me with adequate knowledge regarding zoonosis/food safety. | 97\% | 84\% | 84\% | 84\% | 81\% |
| My veterinary education provided me with adequate knowledge regarding patient welfare. | 97\% | 100\% | 97\% | 90\% | 89\% |
| My veterinary education provided me with a strong appreciation for the importance of research in the provision of veterinary care. | 90\% | 97\% | 84\% | 88\% | 84\% |
| My veterinary education provided me with a good working knowledge of ethical conduct and professionalism. | 97\% | 94\% | 94\% | 92\% | 95\% |
| My veterinary education provided me adequate opportunities to improve my communication skills (verbal \& written). | 90\% | 97\% | 87\% | 82\% | 86\% |
| Overall, my clinical rotations prepared me well for a career in clinical practice. | 97\% | 100\% | 97\% | 88\% | 81\% |
| Overall, my veterinary education provided me with a good working knowledge of comprehensive patient diagnosis and demonstration of problem-solving skills. | 100\% | 100\% | 94\% | 92\% | 88\% |
| The veterinary curriculum provided me adequate preparation for success on the NAVLE. | 97\% | 97\% | 94\% | 100\% | 88\% |
| The overall quality of my interactions with the college administrative and support services was satisfactory. | 94\% | 88\% | 87\% | 88\% | 81\% |
| I would recommend Miss. State CVM to a friend or family member who is considering attending veterinary school. | 100\% | 100\% | 94\% | 88\% | 88\% |
| My overall evaluation of my education at Miss. State CVM would best be described as: Excellent or Very good. | 100\% | 91\% | 90\% | 80\% | 70\% |

## APPENDIX STANDARD 11: Outcomes Assessment

Employer Survey Information

| S=Superior, EX=Exceeded expectations, <br> EXP=Expected performance, B=Below expectations, <br> NSI=Needs significant imp. | $\begin{gathered} \text { c/o } 2016 \\ \mathrm{n}=11 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2017 \\ n=13 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2018 \\ \mathrm{n}=19 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2019 \\ n=18 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { c/o } 2020 \\ n=35 \\ \hline \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% <br> Exp <br> or better | $\begin{gathered} \% \\ \mathrm{~B}+\mathrm{NSI} \end{gathered}$ | \% <br> Exp <br> or better | $\begin{gathered} \% \\ \mathrm{~B}+\mathrm{NSI} \end{gathered}$ | \% <br> Exp <br> or better | $\begin{gathered} \% \\ \text { B+NSI } \end{gathered}$ | \% <br> Exp or better | $\begin{gathered} \% \\ \mathrm{~B}+\mathrm{NSI} \end{gathered}$ | \% <br> Exp or better | $\begin{gathered} \% \\ \mathrm{~B}+\mathrm{NSI} \end{gathered}$ |
| Overall assessment of knowledge/performance of employee | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 94 | 6 |
| Employee demonstrates adequate knowledge of medical principles and diseases | 100 | 0 | 100 | 0 | 95 | 5 | 94 | 6 | 94 | 6 |
| Employee demonstrates adequate knowledge of surgical principles and techniques | 100 | 0 | 100 | 0 | 95 | 5 | 83 | 17 | 89 | 11 |
| Employee demonstrates adequate history taking skills | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 100 | 0 |
| Employee demonstrates adequate animal handling skills | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 97 | 3 |
| Employee demonstrates adequate physical examination skills | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 97 | 3 |
| Employee demonstrates adequate ability to select appropriate laboratory tests | 100 | 0 | 100 | 0 | 95 | 5 | 94 | 6 | 100 | 0 |
| Employee has ability to accurately interpret clinical pathology findings | 100 | 0 | 100 | 0 | 95 | 5 | 89 | 11 | 94 | 6 |
| Employee has ability to accurately interpret radiographs | 100 | 0 | 92 | 8 | 100 | 0 | 80 | 20 | 89 | 11 |
| Employee's overall surgical skills | 100 | 0 | 93 | 7 | 100 | 0 | 89 | 11 | 89 | 11 |
| Employee's performance of routine surgical procedures | 100 | 0 | 100 | 0 | 100 | 0 | 89 | 11 | 86 | 14 |
| Employee's performance of more complex surgical procedures | 80 | 20 | 100 | 0 | 95 | 5 | 66 | 33 | 74 | 26 |
| Employee's performance of general anesthesia and pain management | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 94 | 6 |
| Employee's ability to perform a sufficient necropsy | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 |
| Employee's ability to triage and manage emergency cases | 100 | 0 | 100 | 0 | 95 | 5 | 94 | 6 | 91 | 9 |
| Employee's veterinary dentistry knowledge and skills | 100 | 0 | 100 | 0 | 100 | 0 | 86 | 14 | 86 | 14 |
| Employee's ability to answer common client questions about animal care | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 97 | 3 |
| Employee's ability to properly document patient treatment in medical record | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 89 | 11 |
| Employee's ability to collect routine specimens | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 97 | 3 |
| Employee's ability to properly apply splints and bandages | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 89 | 11 |
| Employee's knowledge and demonstration of professional ethics | 91 | 9 | 100 | 0 | 100 | 0 | 89 | 11 | 100 | 0 |
| Employee's overall problem-solving skills | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 91 | 9 |
| Employee's ability to use a systematic approach to solving problems | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 94 | 6 |
| Employee's ability to accurately develop a list of differential diagnoses | 100 | 0 | 100 | 0 | 95 | 5 | 100 | 0 | 97 | 3 |
| Employee's ability to make independent decisions | 100 | 0 | 93 | 7 | 100 | 0 | 83 | 17 | 94 | 6 |
| Employee's ability to consult others and solve difficult problems | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 94 | 6 |
| Employee's ability to assess when to refer a case | 100 | 0 | 92 | 8 | 100 | 0 | 100 | 0 | 94 | 6 |
| Employee's self-motivation for learning | 91 | 9 | 100 | 0 | 100 | 0 | 89 | 11 | 97 | 3 |
| Employee's ability to critically examine new information | 100 | 0 | 100 | 0 | 100 | 0 | 89 | 11 | 94 | 6 |
| Employee's ability to identify resources and find answers to problems | 100 | 0 | 100 | 0 | 100 | 0 | 88 | 12 | 97 | 3 |
| Employee's overall communication skills | 100 | 0 | 100 | 0 | 100 | 0 | 89 | 11 | 97 | 3 |
| Employee's written communication skills | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 91 | 9 |
| Employee's verbal communication skills | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 97 | 3 |
| Employee's first impression with clients | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 97 | 3 |
| Employee's ability to empathize with clients | 100 | 0 | 100 | 0 | 100 | 0 | 94 | 6 | 94 | 6 |
| Employee's overall business knowledge rating | 100 | 0 | 92 | 8 | 95 | 5 | 60 | 40 | 89 | 11 |
| Employee's time management skills | 91 | 9 | 100 | 0 | 100 | 0 | 67 | 33 | 83 | 17 |
| Employee's ability to work as part of a team | 91 | 9 | 100 | 0 | 100 | 0 | 78 | 22 | 91 | 9 |
| Employee's interactions with colleagues and staff | 91 | 9 | 100 | 0 | 100 | 0 | 83 | 17 | 94 | 6 |
| Employee's leadership skills | 91 | 9 | 100 | 0 | 100 | 0 | 83 | 17 | 85 | 15 |
| Employee's ability to cope with difficult clients | 100 | 0 | 100 | 0 | 100 | 0 | 82 | 18 | 94 | 6 |

गercentage of NAVLE items correct within specific content categories:
$\left.\begin{array}{|l|c|c|c|c|c|c|c|c|c|c|c|c|c|}\hline & 2021 & 2021 & 2020 & 2020 & 2019 & 2019 & 2018 & 2018 & 2017 & 2017 & 2016 & 2016 \\ \hline & \text { ALL } & \begin{array}{c}\text { Ms } \\ \text { State }\end{array} & \text { ALL } & \begin{array}{c}\text { MS } \\ \text { State }\end{array} & \text { ALL } & \begin{array}{c}\text { MS } \\ \text { State }\end{array} & \text { ALL } & \begin{array}{c}\text { MS } \\ \text { State }\end{array} & \text { ALL } & \begin{array}{c}\text { MS } \\ \text { State }\end{array} & \text { ALL } \\ \text { State }\end{array}\right]$


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[^0]:    *Represents students admitted for only the clinical year from other accredited and non-accredited schools.

[^1]:    *Includes clinical track

[^2]:    *Since 2014, 7 students submitted their CPC manuscript to a veterinary journal. To date, three were published

