

**2019-2020**

## Scientific Research & Design/Patient Care Technician

Ben Barber Innovation Academy  
Mansfield Independent School District  
PEIMS 13020510 Clinical Skills

1 <sup>st</sup> /4 <sup>th</sup> Grading Period	2 <sup>nd</sup> /5 <sup>th</sup> Grading Period	3 <sup>rd</sup> /6 <sup>th</sup> Grading Period
<b>Domain II Compliance, Safety &amp; Professional Responsibility</b> – Role of PCT(s), Workplace Safety, Patient Safety, Protecting Patient’s Rights, & Communication	<b>Domain I Patient Care</b> – Sterile & Aseptic Dressings, Ostomy Care, & Skin Care	<b>Domain IV Phlebotomy</b> – Phlebotomy Basics, Dermal Punctures, Venipuncture, Nonblood Specimens, Blood Culture Collection, Adverse Reactions to Blood Collection, Specimen Handling & Transport, Quality Control, Preanalytical Errors, & Chain of Custody Guidelines
<b>Domain III Infection Control</b> – Medical & Surgical Asepsis, Disease Transmission, PPE, & Types of Precautions	<b>Domain III Infection Control</b> – Bloodborne Pathogens Standard, Equipment Sanitization, Disinfection & Sterilization, Exposure Control Plan, & Biohazard Material Disposal	<b>Domain V EKG(s)</b> – Basic Anatomy & Physiology of the Heart, EKG Acquisition, Patient Preparation, Electrode Application & Lead Attachment, Cardiopulmonary Compromise & Other Adverse Effects, Identification and Resolution of Artifacts, Heart Rhythm, Intervals & Waveforms, Dysrhythmias, & Ischemia, Injury, and Infarction
<b>Domain I Patient Care</b> – Functional Limitations; Ambulation, Transfers, & Transports; First Aid & CPR; Reporting Information & Rounding, Five Rights of Delegation, & Prioritizing Patient Care	<b>Domain I Patient Care</b> – Body Systems, Disease Processes, Basic Patient Care, Weighing Patients, Emotional Support, Equipment, Removing Peripheral IV Catheters, Immobility Splints, Compression Devices, Respiratory Care	<b>Domain I Patient Care</b> – Hospice & Postmortem Care

**Course Description:** This course is for 11<sup>th</sup> and 12<sup>th</sup> grades. **There is a \$25 fee required, which must be paid at the beginning of the semester.**

**Scientific Research/Patient Care Technician, formerly Clinical Skills,** is an 18 week course. Scientific Research & Design/PCT (aka Health Science Clinical Skills) is an 18-week course designed to give students the opportunity to achieve competency in five domains needed to achieve a Patient Care Technician certification: patient care, compliance, safety & professional responsibility, infection control, phlebotomy and EKG. Building on knowledge and skills gained in Principles of Health Science and Health Science Theory, you will develop an understanding of the human body, applying classroom concepts in the clinical setting, toward a holistic patient care perspective. This course is designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The student will have the opportunity to observe several disciplines in the hospital, apply the knowledge from the course, and be better prepared to focus on a more specific career pathway. The course will be taught by different methodologies, including pre-employment laboratory, clinical rotation, case study, and didactic classroom education. All clinical rotations will be in Kindred Hospital Mansfield, beginning about the sixth week of classes

## Certifications:

### **BLS/CPR**

Students should have already obtained Basic Life Support CPR certification for healthcare providers through the American Heart Association in Health Science Theory. If a student did not take advantage of this opportunity, they will need to get the certification on their own time prior to rotations or participate in training with another Theory class until the requirements have been met. Any work missed in class will be homework and must be turned in the following class block. To receive CPR certification, students must demonstrate CPR/AED skills successfully (for adult, child, & infant) without any assistance, hints, or prompting from the instructor. Students must also score 84% or higher on the written exam which measures the mastery of cognitive skills. The test must be taken without using the student manual or any other resource for help (closed-book test). This certification is offered in lower-level courses at no cost to the student. There is no internship/externship requirement associated with this certification but class attendance is critical for successful completion of the course and certification acquisition. The renewal of this certification may be offered in some upper level health science courses (CNA, Pharmacy Tech., Emergency Medical Technician).

### **CPCT**

Students are expected to sit for the CPCT exam. In order to become certified as a Patient Care Technician students must successfully complete the required curriculum, demonstrate competency of skills, demonstrate professionalism in the clinical and laboratory setting, and comply with attendance requirements. The cost of the exam is \$155.00. The district will pay for the first test attempt provided the student has passed the practice test and has an average of 80% or higher in this class at the time of testing. If a student does not meet this requirement it is the responsibility of the student and parent to pay for the cost of the test. Students must be 17 years of age to sit for the certification exam. Once a student has successfully passed the certification exam, they may acquire a provisional certification (good for 1 year) prior to graduation and may apply for a standard certification upon graduation and submission of diploma and official transcript.

In the clinical labs and clinical rotations, students will focus on patient care skills, diagnostic and treatment procedures, documentation and information management, and application of their anatomy/physiology knowledge. These skills will facilitate students in securing employment in a health care delivery setting, and advancing to senior-level Health Science classes.

**Instructor:** Sheila Robinson RN, BSN

**Room A-212 Email:**

[sheilarobinson@misdmail.org](mailto:sheilarobinson@misdmail.org)

**Phone:** Campus 682-314-1600 ext 1608 (*not monitored on any regular basis*)

**Remind101** will be set up in class.

**Tutorials:** Conference TBA

Tutoring by appointment Monday and/or Wednesday 3-5 pm

### **Course information:**

Google drive: (drive.google.com) Make a folder- First name, last initial, underscore, block (for example SheilaR\_3-4)

Google classroom: (classroom.google.com) Class code: ldwn9g5 (parents are encouraged to enroll also)

**Textbook:** Advanced Skills for Health Care Providers 2<sup>nd</sup> Ed  
Kaduceus PCT online curriculum (log in information to follow)  
Diversified Health Occupations (6<sup>th</sup> Ed.)(Simmers)(Mosby/Elsevier)  
Materials to be handed out by instructor  
American Heart Association Health Care Provider CPR

**Resource Websites:** [www.kaduceusinc.com](http://www.kaduceusinc.com)  
[www.WebMD.com](http://www.WebMD.com) [www.cdc.gov](http://www.cdc.gov)  
<http://www.easybib.com/> [www.mayoclinic.com](http://www.mayoclinic.com)  
[www.anatomyandphysiology.com](http://www.anatomyandphysiology.com)  
<http://sciencecases.lib.buffalo.edu/>

**Ongoing Current Event Resources:** *(These are available as free apps for the iPad)*  
USA Today  
CBS News Health watch <http://www.cbsnews.com> – click on “Health”

**Apps your student should add to his/her iPad:**  
*Google Drive*  
*Google Classroom* (class materials/assignments)

**Credits:** Students will earn 1 unit of credit for this course. This course counts as a Science credit.

**Student Organization:** Students are encouraged to participate in the M2 Mansfield Medical student organization, which correlates with the Health Science curriculum. Skills USA is the organization that will be utilized for competitions.

### **Course Calendar/Schedule:**

**Course Schedule:** **(The schedule is tentative and subject to change due to progress within the class and circumstances outside the classroom) See calendar provided.**

### **Course Policies and Class Expectations:**

1. **Be on Time:** When the bell rings, be in your seat and ready to begin. We will begin promptly! The school has a zero tolerance for tardiness. You are officially tardy if you are not in the room by 7 am or 11:30, and absent at 20 minutes. Official entry is when you have signed in. At the end of class, wait at your seat to be dismissed.
2. **Be Considerate:** Show respect to others. Once class begins, talking should only be to answer a question or participate in class discussion or group work. We will have many visitors during the year, please be polite, respectful, and courteous. Texting, messaging, or game playing once class has begun will be considered disrespectful and discourteous behavior.
3. **Be Supplied:** When you come to this class, plan ahead and have everything you will need. Bring your iPad, paper and pen to take notes, etc.
4. **Behave:** You have chosen to be here as part of this Program of Study (POS). You were chosen from several applicants to be part of this program. I will treat you as professionals. I expect professionalism in return. **Academic Dishonesty** will not be tolerated. Plagiarism or cheating will result in a grade of zero and the student will have to schedule to take an equal but alternative exam/assignment within 1 week. *Please refer to the MISD Student Handbook.*
5. **Once you are in, you're in!:** Please attend to thirst, toileting, food and hydration needs, and other personal needs prior to entering the classroom. Do not drop your stuff off and leave. **This is not Cosmetology!** Please attend to your makeup and grooming needs before you enter.

6. **Electronics/Food:** Any electronics, other than MISD issued, should be silent and not in use, unless otherwise instructed. Please refrain from use of your cell phone or electronic music devices, unless the instructor gives you permission to use them (rare, but it could happen!). You may bring water to class, but no fountain drinks, no bottled or canned soft drinks, no energy drinks, and no food, should enter the class. Plan your time to complete eating prior to arrival!

**General Requirements:** This course is recommended for students in grade 11-12. Our clinical partners will not allow younger students to attend clinical. The prerequisites for the course are Principles of Health Science, Health Science Theory, and Chemistry and Biology. **Health is not a substitute!**

**Materials Needed:** 1 Black ink pen (*no other color will be accepted for any assignment!*) 1  
    ) 1 Red ink pen  
    1 Highlighter (any color)  
    1 3-inch binder  
    1 spiral notebook  
    Map Pencils or color markers (*We will be using coloring books for anatomy*)  
    1 set scrubs with black pants and pewter scrub top, black or dark grey shoes. (*see uniform below*)

**Grades:** Daily grades 20%      Lab/Mentor Evaluation 30%      Major Grades 50%

20% of your grade will be the final. The final will be comprehensive and is required to include an essay portion per MISD policy.

## SEMESTER EXAMS

Each semester, specific exam schedules are designated for MISD high school and dual credit courses. These schedules must be followed. Neither mid-term nor final exams are given early. If a student is absent on the day of an exam he/she will take the exam at a date/time designated by the school. A student is expected to contact the course teacher to schedule a make-up time for a first semester exam missed because of student absence. A student is expected to contact the school counseling department to schedule a make-up time for any second semester exam missed because of student absence.

## TEST RETAKES

- Students who fail a major test/assessment (below 70%) will be allowed to retake or correct up to a 70% grade. This does not include semester examinations.
- Students are expected to make arrangements with the teacher to retake or correct a major test/assessment.
- Students are encouraged to participate in tutoring opportunities before retaking a test.
- Each teacher will communicate routine requirements for retakes and corrections in his/her course syllabus.
- All retakes or corrections must be completed prior to the end of each six week grading period unless the student is afforded time, after the six week grading period, as a result of the district's absent/make-up guidelines.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility.

## LATE WORK

- Teacher designates due date and time for assignment (Beginning of class period, End of class period, designated time of day)
- If student fails to meet the due date and time, then the student has till the next class period (next A day or B day) to turn in assignment to be considered one day late.
- Students will be assessed a penalty of 30% points for up to one class period late.
- Score of a zero may be given for work turned in after one day late.

### **MAKEUP WORK** (because of absence for any class missed)

- The teacher may assign the student makeup work based on the instructional objectives for the subject or course and the needs of the individual student in mastering the essential knowledge and skills or in meeting subject or course requirements.
- A student will be responsible for obtaining and completing the makeup work in a satisfactory manner and within the time specified by the teacher. When absent, the student is afforded the number of days missed plus one additional day to turn in makeup work. [A/B Block Example: A student misses Monday and Tuesday of the week and he/she returns on Wednesday of that same week. Student work from Monday's absence is considered late after Friday, and student work from Tuesday's absent is considered late after the following Monday.]
- A student who does not make up assigned work within the time allotted by the teacher will receive a grade of zero for the assignment.
- A student is encouraged to speak with his/her teacher if the student knows of an absence ahead of time, including absences for extracurricular activities, so that the teacher and student may plan any work that can be completed before or shortly after the absence.
- A student will be permitted to make up tests and turn in projects due in any class missed because of absence. Teachers may assign a late penalty to any long-term project in accordance with time lines approved by the principal and previously communicated to students.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility.

### **Academic dishonesty**

Teachers determine what constitutes cheating and/or plagiarism.

#### **Consequences for academic dishonesty**

##### **Daily Work**

- Every Offense
  - Academic and Disciplinary Consequences
  - Assign grade of zero
  - Write a referral
  - Teacher contacts parents
  - Consequence from administrator would be a minimum of AC placement

##### **Exams or Other Major Assessments**

- Every Offense
  - Academic and Disciplinary Consequences
  - Assign grade of zero
  - Write a referral
  - Teacher contacts parents
  - Consequence from administrator would be a minimum of AC placement
  - An alternative exam or major assessment can be completed for a maximum grade of 70%
  - Academic Associate is notified and will schedule a meeting with student, parent and teacher

**Exams and Projects:** There will be frequent skill-demonstrations, quizzes and exams, and an Exam/Project for each topic covered. All topics and units are comprehensive, so anything previously covered is still fair game! *Your goal is to master the content in working knowledge, not memorize it just enough for an exam!!* Projects are designed to demonstrate mastery of content and will require application of knowledge or skill by demonstration. Labs will be graded on participation, accuracy and attention to detail, along with ongoing practicum format! Projects will be

graded according to the rubric provided with each assignment. Projects may or may not involve class time, library time or computer lab time. Please plan to utilize your time well, plan for having to manage outside of class and meet the due date. This includes being able to communicate and coordinate with your project partners.

Students will receive a grade for a weekly clinical journal grade and weekly clinical mentor evaluation. While in class, Health Science is the only subject you are allowed to work on. (*Only for rare, special exceptions will I allow students to work on coursework from other classes*).

Participation in class discussion, quizzes, asking and answering questions, completing clinical assignments, working alone or with a team, is required.

**Standards for work:** All assignments should be neatly written in **black ink**, or typewritten. College rule notebook paper is acceptable. Submission electronically is the preferred method. All assignments must be legible and neat. (*if I cannot read it, I reserve the right to decline accepting it.*) Spelling and Grammar will be counted. Assignments should be emailed to [sheilarobinson@misdmail.org](mailto:sheilarobinson@misdmail.org) as appropriate for the class, unless otherwise instructed by me. Clinical assignments will be turned in in class, in the designated area.

**Clinical Rotations:** Clinical rotations will be in the Kindred Hospital Mansfield. Specific information is provided in the Clinical Rotation packet. Clinical forms will be available in class.

1. All students will be required to achieve current Health Care Provider CPR certification.
2. All students must provide proof of current immunizations, including Tdap, MMR, Varicella, Hepatitis and Influenza before the fifth week of class.
3. Students will be required to submit to TB screenings prior to beginning clinical rotations. Students who received BCG will still be required to submit to TB testing, and if positive then to have a chest X-ray. We regret that chest X-ray will not be a provided service by MISD. TB screening will be provided in class on dates to be announced. Students not completing these requirements on the dates provided will need to accomplish this prior to being allowed to participate in clinical rotations.
4. Students may be submitted to urine drug screening before attending clinical.
5. A background check will also be done on each student prior to attending clinical.
6. All students must pay the \$25.00 course fee prior to testing/hospital rotations. A receipt from the Bookkeeper here at Ben Barber is required as proof of payment.

These requirements are set by our clinical partners and are neither subject to variation nor exception. Any student not having the necessary immunizations or screenings prior to the beginning of clinical rotations will not be allowed to participate until the requirements are met.

Students who are absent from clinical due to school related business must arrange to complete an alternative clinical assignment to recoup the clinical grade, by notifying the instructor in advance. If a student is ill (T>100, vomiting, diarrhea, or contagious disease, etc.), he/she must notify the instructor by cell phone before 10:00 p.m. the night before or between 5:30 and 6:30 the morning of clinical. If a student is ill, yet attends school on the day of clinical rotation, he/she must contact the instructor no later than 6:30 a.m. to inform them that he/she will be unable to attend clinical that day. The student will be given an alternative assignment and allowed to remain on campus. Unexcused absence from clinical will result in a grade of zero and the student will not be allowed to make up the time. Excused absence will require the student to complete an alternative assignment.

Clinical rotations may include any of the following hospital areas: Medical/Surgical Care, Rehabilitation Therapy, Orthopedics, Telemetry, Dietary, Housekeeping, Administration and Imaging. Your student may observe or participate in the provision of care to patients, with an assigned and licensed professional, and may experience exposure to invasive procedures, body fluids, and nudity.

If, at any time during a clinical rotation, your student feels faint or dizzy, he/she must inform the assigned staff immediately. All students should eat breakfast or lunch prior to attending their clinical rotation. We want each student to maximize their experience as an observer, not as a patient!

**Clinical Transportation:** Transportation to/from clinical rotations will be provided through MISD Transportation. You must ride the bus to and from clinical! Parents, if you need to pick your student up from clinical, please inform

me in advance via phone or email. I must know who will pick up the student, and I will arrange with you where to meet your student at the time you need. Unfortunately, I am not able to allow you to drop your student at the clinical site late.

**Uniform:** Students will be required to obtain and wear **scrubs consisting of black pants and pewter shirt** for clinical. These are available many places, and vary in price from about \$25.00 a set on up. Shoes can also be obtained many places, and range in price as well. We will discuss this in class. A **Ben Barber HST patch** will be issued to each student and must be sewn to the left sleeve, 1 inch above the hemline of the sleeve. Appropriate, solid color grey or black shoes, constructed of an impervious (with minimal small ventilation holes), solid material (leather or plastic without fabric inserts), and wearing of socks will be mandatory. Sorry, Crocs or similar type shoes will not be acceptable. Students will be required to have a special BBCTA Clinical identification card, to be worn on the upper torso, on their scrubs, either by lanyard or clip, each day while attending clinical rotations. Clinical IDs will be issued by BBCTA and will remain in the classroom when not attending clinical. Any student not wearing appropriate clinical attire and/or identification will not be allowed to participate in clinical, resulting in a grade of zero for the day.

Our clinical partners have set standards regarding hair and nails. Hair may not be colored in unnatural colors such as green or purple---only natural hair colors permitted. Fingernail will be short enough to not show over the end of finger, with no polish, gel, acrylic or dip allowed. Failure to comply will result in restriction from clinical rotation.

**Advancement:** Advancement to Clinical Internship or Practicum level courses will be determined by your classroom and clinical participation, course grade, conduct, attendance, attitude, and teacher recommendations. Please see attached letter and Professionalism Evaluation tool.

### **Classroom Expectations regarding iPads**

- 1) Close all applications on the iPad upon entering the classroom. You may only have open the apps to be used in class during that specific class period. The opening of any additional app including any gaming, messaging or email feature will result in a disciplinary referral.
- 2) iPads need to remain on your desk at all times. When they are not in use, you will need to have them face down in the top right corner.
- 3) iPads need to remain flat on your desk or slightly propped (using the stand) when in use so that your screen can be viewed by me at all times.
- 4) Make sure your device has the sound off. You will be instructed when it is necessary for the sound to be on. In that case, you will be asked to use headphones (see classroom materials).

### **BYOD**

Mansfield ISD has a BYOD policy in place; however, with access to iPads in the classroom daily, the use of any cellular device is only allowed with permission from the teacher. Having cell phones out in class without permission will result in disciplinary action.