

## **Programmatic Essential Functions MS & PhD Biomedical Informatics, HealthCare Informatics**

The SHRP-Essential Functions were developed to assist each student in evaluating their capabilities and chances for success in a particular program. In order for students to do this accurately, program specific Essential Functions must indicate what is required to do well in the academic program, as well as, the skills/functions required to be successful in that particular allied health professional role. The following standards pertain to particular cognitive, motor, behavioral and social skills that are associated with the educational process for your allied health program:

### **Programmatic Standards**

#### **Observational Standards**

- Read and understand measurements (e.g. height, weight, blood pressure values) and their units.
- Read and understand graphs, charts and plots (2D and 3D).
- Observe and solicit clarification as warranted when comparing theoretical knowledge to professional practice.
- Critically assess various situations for correctness and appropriateness.
- Read and store observations in quantitative form from instruments or devices in a data acquisition scenario.

#### **Communication Standards**

- Setup and work with folders and files associated with Microsoft and/or MacOS environments.
- Create, open and edit word processing and spreadsheet files in either Microsoft or MacOS environments.
- Communicate (verbal and written) in English utilizing correct grammar, spelling and presentation of ideas, problems and results of tasks pertinent to data collection, analysis and reports.
- Read and implement instructions pertaining to computer software installation and hardware connections.

### **Intellectual/Conceptual Standards**

- Utilize theoretical knowledge and concepts appropriately in all applications.
- Use problem solving skills to identify and correct professional practice scenarios, where needed.
- Attend and participate in continuing education and training to maintain a current body of knowledge.

### **Motor Skills Standards**

- Obtain, assemble, calibrate, and check necessary equipment used for data collection processing and storage.
- Operate with precision any knobs, dials or keypads used with data collection and storage devices.

### **Behavioral and Social Standards**

- Demonstrate appropriate interpersonal skills to work productively with co-workers, supervisors and staff.
- Accept and follow through on directives and instructions.
- Adhere to safety guidelines as required in the workplace.
- Prioritize multiple tasks; maintain composure while managing multiple tasks simultaneously.
- Show respect and cooperation to interact effectively with co-workers, supervisors and staff of the same or different cultures.
- Maintain personal hygiene consistent with close personal contact as required in the workplace.
- Display attitudes/actions consistent with the ethical standards of the profession.