Brookes College

Pharmacy Assistant Diploma

Course:
Introduction to Hospital Pharmacy
Course Curriculum

Brookes College – Pharmacy Assistant Diploma Program
Introduction to Hospital Pharmacy
Course Curriculum

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Course Syllabus: Introduction to Hospital Pharmacy

Course Description:

In this course, students will be introduced to hospital pharmacy and the differences compared to community practice. In addition, students will familiarize themselves with different hospital organizations and the roles and relationships of different health care professionals caring for patients. The legislation governing hospitals will be discussed. The course will also look at drug distribution, including ward stock, unit dose, etc.

Course Duration:

- 60 hours
- 4 weeks
- 15 hours per week
- 7.5 hours online synchronous instruction per week
- 7.5 hours online self-directed learning per week

Course Goals:

- Introduce students to the fundamental concepts of hospital pharmacy and its unique characteristics.
- Foster an understanding of the roles and responsibilities of pharmacy team members within hospital settings.

- Develop professionalism, ethical awareness, and critical thinking skills necessary for effective healthcare practice.
- Equip students with knowledge of medication safety principles and the integration of technology in hospital pharmacy operations.
- Prepare students for successful entry into the field of hospital pharmacy by providing insights into credentialing, networking, and job application strategies.

Course Format:

- **L**ectures, readings, multimedia materials, and case studies.
- Interactive discussions and group activities to encourage engagement.
- Guest speakers from the healthcare field to provide real-world insights.
- Weekly assignments to apply theoretical knowledge to practical scenarios.

Course Outcomes: By the end of this course, students should be able to:

1. Comprehend the historical evolution and integral role of pharmacy technicians within the healthcare system.
2. Demonstrate professionalism through appearance, attitude, and behavior suited to healthcare environments.
3. Identify, differentiate, and articulate the diverse roles of pharmacy team members within a hospital context.
4. Understand the significance of medication safety principles and apply error prevention methods.
5. Familiarize themselves with health system software, equipment, and technological tools relevant to hospital pharmacy.
6. Explore specialized roles within hospital pharmacy and appreciate their distinct responsibilities.
7. Explain the process of credentialing, licenses, certifications, and the continuing education requirements for pharmacy technicians.
8. Develop effective networking, job application, and interview techniques tailored to hospital pharmacy employment.

Textbook: e-texts have Power Point slides, Instructor manual, tests, and test banks to support instructional delivery:

- "Hospital Pharmacy Practice for Technicians" by Mark Brunton (1st Edition)
- Publisher: Jones & Bartlett Learning
- eText ISBN: 9781284084634

Course Outline:

Week 1: Introduction to Hospital Pharmacy

- Overview of the course and syllabus
- Evolution of pharmacy technicians and their contemporary role
- Introduction to the health system and its integral components

Week 2: Professionalism in Healthcare and Pharmacy Team Roles

- Maintaining professionalism in appearance, attitude, and mindset
- Ethical behaviors, considerations, and critical thinking in the healthcare context
- Roles and responsibilities of central, IV room, and automation technicians

Week 3: Medication Safety, Technology, and Specialty Roles

- Emphasis on medication safety and error prevention strategies
- Understanding health system software, equipment, and troubleshooting methods
- Insight into pharmacy management software and its applications
- Examination of automation software, repackaging, and IV room technology
- Exploration of specialty roles and corresponding responsibilities

Week 4: Career Preparation and Final Project

- Navigating the process of obtaining credentials, licenses, and certifications
- Strategies for effective networking, employment search, and job application
- Mastery of interview techniques and showcasing final project presentations

Assessment and Review:

- Participation: 10%
- Weekly Assignments: 40%
- Midterm Assessment: 20%
- Final Assessment: 30%

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Grading Scale:

Percentage Range	Letter Grade	Grade Points	Description
90 – 100	A+	4.0	**Excellent (4)**
85 – 89	A	4.0	
80 – 84	A-	3.7	
77 – 79	B+	3.3	**Proficient (3)**
73 – 76	B	3.0	
70 – 72	B-	2.7	
67 – 69	C+	2.3	**Competent (2)**
63 – 66	C	2	
60 – 62	C-	1.7	
55 – 59	D+	1.3	
50 – 54	**D**	**1.0**	**Developing (1)**
0 – 49	F	0.0	**Not Evident (0)**

Important Dates:

- Midterm Examination: [Date]
- Final Project Presentation: [Date]
- Final Examination: [Date]Top of Form

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Module Plans: Introduction to Hospital Pharmacy

Course Duration:

- 60 hours
- 4 weeks
- 15 hours per week
- 7.5 hours of online synchronous learning per week
- 7.5 hours of online self-directed learning per week

Course Description:

In this course, students will be introduced to hospital pharmacy and the differences compared to community practice. In addition, students will familiarize themselves with different hospital organizations and the roles and relationships of different health care professionals caring for patients. The legislation governing hospitals will be discussed. The course will also look at drug distribution, including ward stock, unit dose, etc.

Course Format:

The course consists of a combination of synchronous online instruction and self-directed learning. Synchronous instruction includes lectures, discussions, and interactive activities. Self-directed learning involves reading assignments, quizzes, online research, and discussions. Adjustments to session duration and content may be needed based on the course requirements and scheduling preferences.

Textbook: e-texts have Power Point slides, Instructor manual, tests, and test banks to support instructional delivery:

- "Hospital Pharmacy Practice for Technicians" by Mark Brunton (1st Edition)
- Publisher: Jones & Bartlett Learning
- eText ISBN: 9781284084634

Module Outlines:

Week 1: Foundations of Hospital Pharmacy

Learning Outcomes**:** By the end of this module, students will be able to:

- Describe the objectives and structure of the course.
- Understand the historical evolution of pharmacy technicians and their role in healthcare.
- Identify the distinctive features of hospital pharmacy.
- Compare and contrast hospital and community pharmacy practices.

Session 1: Evolution of Pharmacy Technicians

Synchronous Instruction: 2 hours

Topics:

- Introduction, objectives, and course structure
- Historical evolution of pharmacy technicians

Activities:

- Introduction to the course objectives and structure.
- In-depth exploration of the historical development of pharmacy technicians.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Reading assignments on the history of pharmacy technicians.
- Participation in online forum discussions to share insights and questions.
- Weekly quizzes and assignments (40%).

Session 2: Hospital Pharmacy Practices

Synchronous Instruction: 2 hours

Topics:

- Distinctive features of hospital pharmacy
- Comparison of hospital and community pharmacy practices

Activities:

- In-depth discussion of the unique aspects of hospital pharmacy.
- Comparative analysis of hospital and community pharmacy practices.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Exploration of resources on hospital pharmacy practices.
- Reflect on the implications of these practices for patient care.

Week 2: Professionalism and Collaborative Roles

Learning Outcomes**:** By the end of module, students will be able to:

- Recognize the importance of professionalism in healthcare.
- Apply strategies to maintain professionalism in various healthcare settings.
- Define the roles and interactions of pharmacy team members.
- Analyze ethical considerations in healthcare, especially within pharmacy teams.

Session 1: Professionalism in Healthcare

Synchronous Instruction: 2 hours

Topics:

- Importance of professionalism

- Strategies to maintain professionalism in healthcare.

Activities:

- Discussion of the significance of professionalism in healthcare.
- Role-play exercises to practice maintaining professionalism.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Readings on professionalism and ethical considerations.
- Engage in self-assessment exercises to reflect on personal professionalism.

Session 2: Pharmacy Team Collaboration

Synchronous Instruction: 2 hours

Topics:

- Roles and interactions of pharmacy team members
- Ethical considerations in healthcare

Activities:

- Discussion of the roles and responsibilities of pharmacy team members.
- Ethical dilemma scenarios for group discussions.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Write reflective essays on ethical scenarios encountered in healthcare.
- Research the diverse roles within a pharmacy team.

Week 3: Medication Safety and Technological Integration

Learning Outcomes**:** By the end of the session, students will be able to:

- Explain the principles of medication safety.
- Develop strategies to prevent medication errors in a hospital setting.
- Understand the role of technology in healthcare.
- Evaluate the challenges and benefits of integrating technology into hospital pharmacy operations.

Session 1: Medication Safety Principles

Synchronous Instruction: 2 hours

Topics:

- Principles of medication safety

- Strategies to prevent medication errors.

Activities:

- In-depth discussion of medication safety principles.
- Case studies and group activities to apply strategies for preventing medication errors.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Reading assignments on medication safety.
- Analysis of real-world medication error cases and their prevention measures.

Session 2: Integration of Technology in Hospital Pharmacy

Synchronous Instruction: 2 hours

Topics:

- Role of technology in healthcare.
- Challenges and benefits of technology integration in hospital pharmacy.

Activities:

- Discussion on the evolving role of technology in healthcare.
- Case studies on technology implementation in hospital pharmacy.

Self-Directed Learning: 2 hours

- Research on current healthcare technologies and their impact.
- Personal reflection on the advantages and drawbacks of technology in pharmacy practice.

Week 4: Career Readiness and Project Culmination

Learning Outcomes**:** By the end of session one students will be able to:

- Understand the process of obtaining credentials and licenses.
- Develop strategies for effective job searching and networking in the field of hospital pharmacy.
- Deliver presentations of their final projects.
- Reflect on the overall course content and personal growth throughout the course.

Session 1: Career Development in Hospital Pharmacy

Synchronous Instruction: 2 hours

Topics:

- Obtaining credentials and licenses
- Strategies for job searching and networking.

Activities:

- Guidance on obtaining necessary pharmacy credentials and licenses.
- Interactive workshop on job searching techniques and networking in the healthcare industry.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Research on different pharmacy credentials and their requirements.
- Crafting a professional resume and cover letter tailored for hospital pharmacy positions.

Session 2: Final Projects and Course Recap

Synchronous Instruction: 2 hours

Topics:

- Presentations of final projects.
- Reflection on course content and personal/professional development.

Activities:

- Presentation of final projects by students.
- Group discussions on the course content and individual growth.

Self-Directed Learning: 2 hours

Activities and Assessment:

- Refining final project presentations based on feedback.
- Personal and professional reflection on the journey through the course.

Assessment and Review:

- Weekly quizzes and assignments (40%)
- Mid-term exam (20%)
- Final exam (30%)
- Participation in synchronous and asynchronous sessions (10%)

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Sample Lesson Plan: Medication Safety and Technology Integration

Lesson Duration:

- 7.5 hours
- 3.25 hours online synchronized instruction
- 3.25 hours of online self-directed learning

Learning Outcomes: By the end of this lesson, students will be able to:

1. Recognize the significance of medication safety in healthcare settings.
2. Understand different types of medication errors and their prevention strategies.
3. Familiarize themselves with health system software, equipment, and technology used in hospital pharmacy operations.

Textbook**:** e-texts have Power Point slides, Instructor manual, tests, and test banks to support instructional delivery:

- "Hospital Pharmacy Practice for Technicians" by Mark Brunton (1st Edition)
- Publisher: Jones & Bartlett Learning
- eText ISBN: 9781284084634

Materials:

- Online platform for synchronous instruction
- Presentation slides
- Reading materials on medication safety, error prevention, and healthcare technology
- Videos demonstrating health system software and pharmacy equipment.
- Discussion forum for self-directed learning
- Case studies on medication errors and technology implementation

Session Outline:

Introduction:

- Welcome students and introduce the importance of medication safety and the role of technology in ensuring patient well-being.

Synchronous Instruction (2 hours):

Topic: Principles of Medication Safety

- Define medication safety and its critical role in preventing harm to patients.
- Discuss common types of medication errors and their potential consequences.

Topic: Error Prevention Strategies:

- Introduce strategies to minimize medication errors, such as the five rights of medication administration and double-check procedures.
- Provide real-world examples illustrating the impact of error prevention.

Topic: Integration of Technology in Medication Safety:

- Explain the role of health system software, automation, and electronic health records in enhancing medication safety.
- Showcase videos demonstrating the use of technology in pharmacy operations.

Activities:

Title of Activity: Case Study Analysis

- Provide a case study involving a medication error and ask students to analyze the root causes and propose preventive measures.
- Groups present their findings and engage in peer discussions.

Title of Activity: Technology Exploration (30 minutes):

- Assign students to explore a specific health system software or technology used in pharmacy.
- Ask them to identify the benefits, challenges, and impact on medication safety.

Break

Self-Directed Learning: (2 hours)

Topic: Readings on Medication Safety and Technology:

- Assign readings on medication safety principles, error prevention, and technological integration in healthcare.
- Provide a list of discussion points to guide students' engagement with the readings.

Topic: Technology Assessment and Reflection (45 minutes):

- Assign a reflection activity where students evaluate the effectiveness of a specific technology in enhancing medication safety.

- Encourage them to share their insights and opinions on the discussion forum.

Assessment Activity: Technology Effectiveness Debate:

- Divide students into groups, with each group representing a different technology used in medication safety.
- Groups debate the advantages and disadvantages of their assigned technology in preventing errors.

Conclusion and Recap:

- Summarize the key takeaways from the session, emphasizing the critical role of technology in medication safety.

Homework Assignment:

- Case Analysis Report: Ask students to write a report analyzing a real-world medication error incident, including its causes, impact, and proposed preventive measures.

Learning Outcomes Review:

- Review the learning outcomes and ask students to share one insight they gained from the lesson related to medication safety and technology integration.

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Rubric for Introduction to Hospital Pharmacy

Skill Category	Assessment Criteria	Excellent (4)	Proficient (3)	Competent (2)	Developing (1)	Not Evident (0)
Skill Category 1: Knowledge and Understanding	Understanding of key concepts	In-depth understanding and ability to apply concepts in various contexts.	Clear understanding of fundamental concepts.	Partial grasp of concepts.	Limited understanding of concepts.	Very limited or no understanding of concepts.
Differentiation between hospital and community practices	Provides insightful analysis of key differences, highlighting their implications for patient care.	Accurately distinguishes between hospital and community practices.	Partially identifies differences between hospital and community practices.	Limited ability to differentiate between hospital and community practices.	Cannot differentiate between hospital and community practices.	
Skill Category 2: Critical Thinking and Analysis	Ethical decision-making	Demonstrates exceptional ability to analyze ethical dilemmas, proposing well-justified solutions.	Effectively identifies and evaluates ethical considerations in healthcare scenarios.	Identifies some ethical considerations but may not fully evaluate their implications.	Struggles to identify ethical considerations in healthcare scenarios.	Cannot identify ethical considerations.
Critical analysis of technology	Delivers comprehensive analysis, including nuanced perspectives on technology's influence in healthcare.	Provides insightful analysis of technology's benefits and challenges in hospital pharmacy.	Presents some analysis of technology's role in healthcare.	Offers limited analysis of technology's impact on healthcare.	Cannot analyze technology's impact.	
Skill Category 3: Communication and Collaboration	Participation in discussions	Consistently initiates thoughtful discussions and encourages meaningful exchanges.	Actively engages in discussions, contributing relevant insights.	Participates sporadically in discussions, with limited interaction.	Rarely contributes to discussions, lacks engagement.	Does not participate in discussions.
Team collaboration	Exhibits exemplary collaboration skills, fostering a harmonious and productive team environment.	Demonstrates effective teamwork and contributes positively to group initiatives.	Participates in team activities but may encounter challenges in group dynamics.	Struggles to work collaboratively within a team setting.	Cannot work collaboratively in a team.	

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Skill Category	Assessment Criteria	Excellent (4)	Proficient (3)	Competent (2)	Developing (1)	Not Evident (0)
Skill Category 4: Practical Application	Application of safety measures	Exemplifies consistent application of safety measures, prioritizing patient well-being.	Applies medication safety principles effectively in diverse scenarios.	Demonstrates partial application of safety measures.	Struggles to apply medication safety principles in practical scenarios.	Cannot apply safety measures.
Technology utilization	Masters technology tools, leveraging them to optimize pharmacy operations and patient care.	Demonstrates competent use of pharmacy technology, enhancing workflow efficiency.	Uses technology with some proficiency but may encounter difficulties.	Struggles to navigate pharmacy-related technology.	Cannot use technology effectively.	
Skill Category 5: Presentation and Professionalism	Written communication	Exhibits exceptional written communication skills, conveying complex concepts effectively.	Conveys ideas clearly and coherently in written form.	Communicates ideas in writing, though with occasional lapses in clarity.	Demonstrates weak written communication skills, with limited clarity.	Cannot communicate effectively in writing.
Presentation skills	Delivers polished and captivating presentations, commanding attention and conveying professionalism.	Presents ideas logically and engagingly, using effective visual aids.	Presents with some organization, though improvements in delivery are needed.	Struggles to deliver presentations, lacking organization and coherence.	Cannot deliver effective presentations.	

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