

Practical Guide to Undergraduate Medical Curriculum Alignment and Mapping

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Objective: Curriculum development and reviews are of paramount importance for academic programs curriculum management. Medical curricula need proper construction and frequent updates to suits learning outcomes considering their integrative nature and rapid scientific advancement. Curriculum alignment and mapping are fundamental for proper integration and planning of medical curriculum. This process is beneficial in detecting gaps and redundancies, and ensuring proper instruction, integration, and transparency. However, there is a paucity in the literature of a practical guidance to such process. Hence, this manuscript provides a practical guidance that was adopted in our institutes.

Methods: A detailed description of twelve step-by-step guidance to curriculum alignment and mapping was provided. The process needed for each step and the flow chart of work was detailed.

Results: This guide was developed and implemented successfully. Among many benefits encountered, many gaps in the contents, learning outcomes and assessment methods were detected and rectified. Additionally, better curriculum integration has been achieved. The current mapping will make any future curriculum reviews easier.

Conclusion: This guide could be utilized by newly developed and existing programs for curriculum alignment and mapping. It fills a gap in academic literature through stepwise workflow which has been tested and implemented.

Keywords: curriculum, mapping, learning outcomes

Introduction

A curriculum defines the intended knowledge skills and learning outcomes expected by students.¹ A curriculum is designed based on learning and instruction principles and requires a composite of different educational strategies, course content, learning outcomes, educational experiences, assessment, and a suitable educational environment considering individual students' learning styles and programs of work.^{1,2} To have a constructive curriculum, harmonization is a mainstay between declared or planned curriculum, operational curriculum (taught or learned), and experienced curriculum.^{1,3} This requires proper alignment between the intended learning outcomes (curricular intent) expected in the declared curriculum and other instructional components, namely teaching methods, within-class teaching activities, and assessment, to ensure coherency.⁴ Communicability, transparency, and versatility are crucial pillars in the design and execution of curriculum, as they allow for continuous revision, evaluation, and modification without difficulty.^{5,6} These attributes are frequently neglected in favor of more prominent curricular components, including content, pedagogy of participation, and assessment.⁷

Curriculum mapping is an essential active process that allows holistic spatial visualization of the various parts of the curriculum's interrelationships and connections.¹ The advantages of mapping are multifaceted, as it allows assessing the



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Engineering Capstone Design Alexei Morozov, Rosaire Mongrain, Mark Driscoll, Peter Radziszewski, Benoit Boulet, 2025-09-23 A concise and practical guide to succeeding in the undergraduate engineering capstone design project In Engineering Capstone Design Project Planning Organizing and Executing a team of accomplished engineers delivers a practical guide for engineering students undertaking their capstone design project course in the final year of their bachelor program It covers two aspects of the capstone course planning and the design process You ll explore how to organize your team manage and develop your project and communicate with clients advisors suppliers and manufacturers You ll also discover a detailed step by step approach to the design process following the milestones and requirements of engineering capstone design courses The book focuses on the process of mechanical engineering design but also includes material covering electrical chemical biomedical and control systems engineering design It also offers several illustrative case studies of successful capstone design projects completed at McGill University Readers will also find A thorough introduction to the principles of organization of capstone design courses including learning attributes and grade attribution Comprehensive step by step instructions to the design process Useful case studies from academic industrial and McGill student design competition capstone projects Examples and anecdotes drawn from the authorial team s extensive professional and academic experience in engineering design and project advice Perfect for undergraduate students taking the capstone mechanical engineering project course Engineering Capstone Design Project Planning Organizing and Executing will also benefit students of other engineering design courses seeking a clear step by step approach to the design process

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The Journal of Education, 1888

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Process Plant Design Robin Smith, 2023-11-20 Process Plant Design An introductory practical guide to process plant design for students of chemical engineering and practicing chemical engineers Process Plant Design provides an introductory practical guide to the subject for undergraduate and postgraduate students of chemical engineering and practicing chemical engineers Process Plant Design starts by presenting general background from the early stages of chemical process projects and moves on to deal with the infrastructure required to support the operation of process plants The reliability maintainability and availability issues addressed in the text are important for process safety and the avoidance of high maintenance costs adverse environmental impact and unnecessary process breakdowns that might prevent production targets being achieved A practical approach is presented for the systematic synthesis of process control schemes

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Assessing and Developing Undergraduate Programs Dana S. Dunn, Maureen A. McCarthy, Suzanne C. Baker, Jane S. Halonen, 2010-12-21 *Using Quality Benchmarks for Assessing and Developing Undergraduate Programs* introduces selected performance criteria benchmarks to assist undergraduate programs in defining their educational goals and documenting their effectiveness The book explores the attributes of undergraduate programs by focusing on educationally related activities in eight domains program climate assessment accountability and accreditation issues student learning outcomes student development curriculum faculty characteristics program resources and administrative support Further it conceptualizes a continuum of performance for each attribute in each of the domains to characterize underdeveloped developing effective and distinguished achievement for undergraduate programs The goal of the book is to encourage individual departments at various types of institutions to evaluate what they currently do well while identifying areas for refinement or future growth When benchmarks reveal that a program is underdeveloped faculty and administrators can plan for how they can best direct subsequent efforts and resources to improve a program's performance and ability to serve students Emphasizing formative assessment over summative or punitive evaluation the benchmarks in this book are designed to improve program quality encourage more effective program reviews and help optimally functioning programs compete more successfully for resources Using performance benchmarks to identify areas of program strength can in turn be used to recruit and retain students seek funding via grants or alumni support and enhance the perceived rating of an institution *Therapeutic Gazette*, 1908

Teaching Undergraduate Research in Religious Studies Bernadette McNary-Zak, Rebecca Todd Peters, 2011-09-14 This text offers an introduction to the philosophy and practice of undergraduate research in religious studies and takes up several significant ongoing questions related to it **Designing and Implementing a Successful Undergraduate Research, Scholarship and Creative Activity Program** Holly Unruh, Heather Haeger, John Banks, Winny Dong, 2024-09-06

Designing and Implementing a Successful Undergraduate Research Scholarship and Creative Activity Program is designed as a resource for faculty administrators and university leaders interested in developing new or expanding existing undergraduate research programs. The book provides a practical handbook addressing the many how-to questions associated with running a successful undergraduate research enterprise, ranging from how to organize an undergraduate research office to how to find funding, foster cross-campus relationships, and develop learning outcomes for students in order to maximize the benefits of the research experience. It also addresses best practices in mentoring, how faculty mentorship fits within the discussion of tenure and promotion, and the basics of assessment for both funder reporting and program improvement. Containing a series of vignettes offering specific advice from program directors, faculty mentors, and university administrators from a diverse array of universities and colleges, this book showcases their hands-on tips, advice, and lessons learned. Addressing key issues through real-world experience, the authors show how to build effective cross-disciplinary undergraduate research programs with positive impacts for students and faculty.

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