



From Spreadsheets to Searchable Strategy: How AUC Transformed Curriculum Mapping with Medtrics

How a global medical school replaced fragmented curriculum files with a centralized, searchable platform.

Table of Contents

01	Executive Summary
02	Why Curriculum Transparency Matters in Global Medical Education
03	The Problem: A Curriculum Locked in Spreadsheets
06	The Solution: Centralizing Curriculum in Medtrics
09	The Impact: From Weeks to Seconds
10	Looking Ahead

Executive Summary

The American University of the Caribbean School of Medicine (AUC), a global medical school with a social accountability mission and over 8,500 alums, undertook a multi-year initiative to modernize its curriculum mapping processes. Before adopting Medtrics, AUC lacked a centralized way to access and analyze its curriculum. Faculty and leadership relied on manual processes that created friction across planning, instruction, and oversight.

Working closely with the Medtrics team, AUC migrated, cleaned, and restructured its entire curriculum into the Medtrics platform. The result is a living, searchable curriculum that supports program-wide transparency, enhances decision-making, and provides faculty with immediate access to critical academic information that had previously been scattered, inconsistent, and slow to retrieve. This case study outlines AUC's journey, from manual overhead to self-service insight.

Introduction

American University of the Caribbean School of Medicine (AUC) is a global medical school with a mission rooted in academic excellence, social accountability, and international experience. With campuses in Sint Maarten and the United Kingdom, AUC trains future physicians through immersive learning environments and hands-on clinical preparation. The school is accredited by the Accreditation Commission on Colleges of Medicine (ACCM), and its students consistently perform at a high level, posting a 95% first-time residency match rate and an 84% first-time pass rate on the United States Medical Licensing Examination (USMLE) Step 1 between 2019 and 2023.

To deliver on that promise across borders, campuses, and clinical partners, AUC depends on a curriculum that is not only well-structured but also transparent: easily understood, accessible, and queryable by those who use it every day.



Why Curriculum Transparency Matters in Global Medical Education

Curriculum transparency plays a critical role at institutions like AUC. Faculty and leadership work across countries and time zones, making it essential to track what students learn, when they learn it, and how each session aligns with broader program objectives. Transparent access to curriculum data gives teams the clarity they need to maintain academic quality and deliver on institutional goals.

When curriculum data is opaque or inaccessible:

- **Faculty members unknowingly duplicate instruction** or miss opportunities to build on previous learning.
- **Leadership cannot identify coverage gaps or overlaps** in critical domains such as biochemistry, clinical reasoning, or professional competencies.
- **Accreditation preparation becomes reactive and time-intensive**, relying on staff to manually piece together evidence from dozens of disconnected spreadsheets.

At AUC, these risks were compounded by an ambitious curriculum refresh. The institution needed a system that could scale alongside its evolving academic model and support a more proactive, self-service approach to curricular insight.

Early Signs of Strain

Prior to adopting Medtrics, AUC's entire curriculum map lived in Excel. Objectives were tracked manually, global themes were inconsistently categorized, and no tool existed to search across the curriculum by keyword or concept. Even straightforward questions required curriculum leadership to search, clean, and interpret spreadsheet data manually. The process slowed real-time planning and left faculty disconnected from the broader curriculum.



The Problem: A Curriculum Locked in Spreadsheets

AUC managed curriculum data in isolated spreadsheets that became increasingly difficult to maintain as the program evolved. Objectives, competencies, and mappings were buried in disconnected files with no reliable way to search or cross-reference content. As the school expanded its academic goals, the system slowed faculty, staff, and leadership alike.

AUC encountered five major breakdowns in its curriculum process:

Faculty Worked Without Context

The faculty had no direct way to determine whether a concept, such as gene transcription or renal physiology, was already covered in another course. To get answers, they had to email the curriculum team and wait for a response.

“That was basically inaccessible information,” said Chris Tokodi, Chief Information Officer at Medtrics, who supported the AUC implementation. “They would either have to go through the spreadsheets, or just contact the curriculum office... which could take weeks.”



Without a way to explore the curriculum independently, instructors risked duplicating topics, missing foundational content, or failing to cover essential material.

Leadership Had No Immediate Visibility

AUC's academic leadership faced the same constraints. To run a curriculum mapping report, identify unlinked sessions, or verify alignment to external frameworks, the team had to locate and manually cross-reference multiple files. The curriculum offered depth. It lacked transparency.

Inconsistent data added to the challenge. Slight variations in terminology, such as “Renal Physiology” versus “Physiology of the Renal System,” caused duplication. Unmapped sessions slowed efforts to prepare for accreditation or curriculum review.

National Standards Were Difficult to Track

USMLE content and AAMC objectives appeared throughout the curriculum. However, the spreadsheets offered no consistent way to track or search those references. As a result, it was difficult to verify whether key competencies were being taught, and where.

Accreditation Reporting Required Heavy Lifting

To meet ACCM requirements, AUC had to demonstrate coverage, mapping, and curricular intent across years and departments. However, without a centralized view of the curriculum, the burden fell to a small number of staff who had to interpret the spreadsheets and clean the data manually. Each accreditation cycle meant hours of reactive effort and duplicated work.

A Curriculum Refresh Raised the Stakes

When AUC launched a curriculum redesign, the limits of the spreadsheet model became impossible to ignore. Curriculum teams had to validate objectives, identify gaps, and build forward-looking alignment. All of this occurred within a system that was never designed for scalability. AUC needed a platform that could grow in line with its academic goals and provide every stakeholder, from course directors to deans, the clarity to move quickly and plan confidently.

How Long Does It Take to Answer a Simple Curriculum Question?	
Before Medtrics (Excel-Based)	After Medtrics (Centralized Search)
Faculty emails curriculum team	Faculty logs into Medtrics
Curriculum staff locates correct file	Uses keyword or objective search
Staff cleans/validates spreadsheet	Session results appear instantly
Staff replies via email	Faculty exports to PDF or Excel
Time elapsed: 2–14 days	Time elapsed: <30 seconds



The Solution: Centralizing Curriculum in Medtrics

AUC partnered with Medtrics to replace fragmented spreadsheets with a **centralized, dynamic curriculum platform**. What began as a migration effort quickly evolved into a comprehensive structural overhaul. The project team audited and **cleaned legacy files, eliminated duplicate entries, and reorganized learning objectives** to reflect how the curriculum functioned in practice. AUC's IT team led the effort with close collaboration from Medtrics' support staff and curriculum leaders.

Medtrics now houses the full curriculum in one system, with access tailored by role and updated continuously.

Structuring the Curriculum for Search and Insight

One of the most important changes involved how AUC handled USMLE-aligned content. Instead of burying references in spreadsheets or session-level notes, the team transformed these into **structured keywords and themes**. Concepts like “renal physiology” or “gene expression” became **searchable tags, organized under broader themes** like molecular biology or systems-based instruction.

Faculty and course directors can now **search the curriculum directly by keyword, theme, or mapped objective**. A single query—such as “brain” or “immune system”—returns every relevant session, complete with objectives and teaching context. Searches that once took weeks can now be completed in seconds.

“Now faculty can just log in with their normal account... and immediately get the answers that used to take weeks,” said Tokodi.

Select Academic Period:
Jan 01, 2024 - Jun 30, 2025

Select Keywords and Themes

Keywords: Seeing 100 of 500 results. Search for terms Logical relationship: ☒ or ☐ and ☐ Themes: Seeing 100 of 114 results. Search for terms

Sessions

Course Code	Course Name	Course Director	Session Code	Session Name	Session Duration	Session Venue	Keywords	Themes
M205	Neuroscience & Behavioral Medicine		M205-S62	Small Group Neurodegenerative Diseases	320	None	Alzheimer's, Parkinson's, Neurodegeneration	

Giving Leadership the Tools to Lead

Medtrics also equips academic leadership with real-time reporting. Curriculum directors can view mapping coverage across courses, identify unmapped sessions, and verify alignment with external frameworks such as AAMC competencies. Reports are built into the system and update automatically as content evolves.

This new visibility supports more thoughtful planning, faster course updates, and ongoing accreditation readiness, all without depending on a specialist to run manual analyses.

Program Setup

General Curriculum Permissions Session Event Types **Keywords** Session Settings Migrate Curriculum Other Bulk Delete

Upload CSV Manage Categories Add Keyword

Active Inactive

61 Keywords

aand

KEYWORD	ID	CATEGORY	DESCRIPTION	SYNONYMS	NOT THESE	ACTION
Addiction Medicine	K002	AAMC Keywords				
Anatomy	K006	AAMC Keywords				
Behavioral Sciences	K008	AAMC Keywords				
Bias And Prejudice	K009	AAMC Keywords				
Biochemistry	K010	AAMC Keywords				
Biostatistics	K012	AAMC Keywords				
Blood And Lymphoreticular System	K013	AAMC Keywords				
Cardiovascular System	K014	AAMC Keywords				
Clinical Decision-Making	K016	AAMC Keywords				



From Questions to Clarity: How Medtrics Powers Curriculum Insight

1. Search Interface (Input Layer)

- Keywords/themes: “brain,” “renal system,” “gene expression”
- Visual: A single search bar with intelligent filters (course, year, objective type)
- Label: “Faculty and leadership start with a simple search.”

2. Smart Results (Processing Layer)

- Result cards with session title, mapped objectives, and linked themes
- Icons showing export to PDF/Excel and save to report
- Label: “Instantly view where topics are taught and how they align to objectives.”

3. Actionable Outcomes (Output Layer)

For Faculty

- Update course content
- Avoid duplication
- Reinforce earlier learning

For Leadership

- Identify gaps and overlaps
- Export for accreditation
- Monitor coverage by standard

The Impact: From Weeks to Seconds

With Medtrics, AUC moved from siloed data and manual reports to a searchable, real-time platform that supports faculty and leadership alike. Planning became faster, documentation became simpler, and academic decisions began moving at the speed of inquiry.

What Changed at AUC?

Before Medtrics	After Medtrics
Faculty emailed for curriculum answers	Faculty search and export results directly
Reports built by hand	Reports generated in real time
Duplicate keywords and objectives	Standardized metadata and themes
Accreditation data assembled manually	Accreditation data ready on demand
Fragmented files and folders	One centralized, searchable platform



Faculty plan with more autonomy.

Instructors now locate sessions, confirm objectives, and explore related content without involving support staff. They refine course content and coordinate sequencing across the curriculum with fewer handoffs, resulting in a more streamlined process. This shift has reduced dependency on coordinators and improved instructional workflow.



Leadership moves from observation to action.

Real-time reports show where gaps exist and how topics align with national frameworks. Academic leaders adjust course structures based on live data and track the impact immediately.



Accreditation is built into the workflow.

Mappings are exportable on demand. AUC can now respond to site visit requests or curriculum reviews without having to assemble documentation from scratch. The platform supports standards from ACCM and the AAMC directly.



Clean data supports consistent decisions.

Standardized keywords and resolved duplication make the system easier to search and easier to trust. Faculty work from a single source of truth, not a mix of overlapping files.



The platform supports what comes next.

AUC is preparing to load session schedules into Medtrics. Once complete, the curriculum will be searchable by both time and content, creating a more precise and coordinated approach to planning.

By turning curriculum data into an accessible, real-time asset, AUC replaced slow, manual work with a system that actively supports teaching, oversight, and institutional progress.

Looking Ahead

AUC's next step is **to integrate session scheduling** into Medtrics. With curriculum content already centralized and searchable, adding session timing will provide a more complete picture of when each topic is taught and how sessions align across the academic year. This layer of visibility will help faculty **manage pacing, coordinate content delivery, and identify instructional gaps** earlier in the planning process.

The curriculum team also plans to utilize Medtrics for **longitudinal analysis**. By tracking the progression of themes, objectives, and competencies over time, AUC can design more **cohesive learning experiences** and strengthen its ability to **respond to internal reviews or accreditation audits**.

These plans reflect more than just added functionality. They mark a shift in how AUC manages academic complexity. What began as a data migration effort has become a long-term foundation for strategic planning and curricular excellence. With the proper structure in place, AUC is well-positioned to scale its innovation, sustain oversight, and deliver high-quality medical education across its programs.

AUC's Curriculum Evolution with Medtrics

Stage	Label	Supporting Text
Step 1 (Complete)	Curriculum Centralized	Content mapped and searchable by objective, keyword, and theme.
Step 2 (In Progress)	Session Scheduling	Sessions are linked to time and sequence for clearer pacing and instructional planning.
Step 3 (Planned)	Longitudinal Planning	Track themes, competencies, and standards across academic years.

Course Code	Course Name	Course Director	Session Code	Session Name	Session Duration	Session Venue	Keywords	Themes
M101	Foundations of Medicine I	Thomas Reynolds	M101-L1	Introduction to Cellular Biology (Lecture)	60	None	biochemistry organelles proteolysis cells	
M101	Foundations of Medicine I	Thomas Reynolds	M101-L2	Fundamentals of Genetics (Lecture)	60	None	gene expression inheritance genetics	
M101	Foundations of Medicine I	Thomas Reynolds	M101-LG1	Homeostasis and Feedback Loops (Large Group Discussion)	90	None	feedback loops physiology homeostasis	
M101	Foundations of Medicine I	Thomas Reynolds	M101-SG1	Clinical Correlations in Basic Science (Small Group)	120	None	link science case discussion clinical correlation	
M101	Foundations of Medicine I	Thomas Reynolds	M101-SG2	Exploring Molecular Pathways (Small Group)	120	None	enzyme mechanisms signals metabolic pathways	
M101	Foundations of Medicine I	Thomas Reynolds	M101-SIM1	Virtual Cell Function Simulation (Simulation)	90	None	cell function interactive learning simulation	
M102	Anatomy & Histology	Thomas Reynolds	M102-L1	Introduction to Human Anatomy (Lecture)	60	None	body organization fundamentals anatomy basics	
M102	Anatomy & Histology	Thomas Reynolds	M102-L2	Fundamentals of Histology (Lecture)	60	None	microscopy tissues histology	
M102	Anatomy & Histology	Thomas Reynolds	M102-LAB1	Upper Limb Dissection Lab (Laboratory)	180	None	gross anatomy upper limb dissection	
M102	Anatomy & Histology	Thomas Reynolds	M102-LAB2	Microscopy of Major Tissue Types (Laboratory)	120	None	microscopy tissues histology lab	
M102	Anatomy & Histology	Thomas Reynolds	M102-LG1	Embryological Development of Organ Systems (Large Group Discussion)	90	None	embryological development organ development embryology	
M102	Anatomy & Histology	Thomas Reynolds	M102-SG1	Imaging and Clinical Correlation (Small Group)	120	None	anatomy clinical correlation imaging	
M103	Medical Ethics & Professionalism		M103-L1	Core Ethical Principles in Medicine (Lecture)	60	None	ethics bioethics justice ethics	
M103	Medical Ethics & Professionalism		M103-LG1	Large Group Case Discussions: Ethical Dilemmas	90	None	decision making professionalism ethics cases	
M103	Medical Ethics & Professionalism		M103-LG2	Large Group Discussion: Legal & Regulatory Frameworks	90	None	ethics policy legal frameworks	
M103	Medical Ethics & Professionalism		M103-SG1	Small Group Workshop: Confidentiality & Disclosure	120	None	ethics workshop patient privacy confidentiality	
M103	Medical Ethics & Professionalism		M103-SG2	Small Group Workshop: Cultural Competence	120	None	communication ethics cultural competence	
M103	Medical Ethics & Professionalism		M103-SIM1	Informed Consent Simulation	90	None	patient autonomy simulation informed consent	
M104	Fundamentals of Clinical Skills		M104-L1	Introduction to Patient Interview Technique (Lecture)	60	None	communication interview patient interview	
M104	Fundamentals of Clinical Skills		M104-LG1	Large Group Discussion: Introduction to Clinical Reasoning	90	None	differential diagnosis reasoning clinical reasoning	
M104	Fundamentals of Clinical Skills		M104-SG1	Small Group History Taking Practice	120	None	communication skills small group history taking	



Curious about how Medtrics can support your curriculum team?

Start the conversation at medtricslab.com/contact-us