

Curriculum Inventory

Participating Vendors

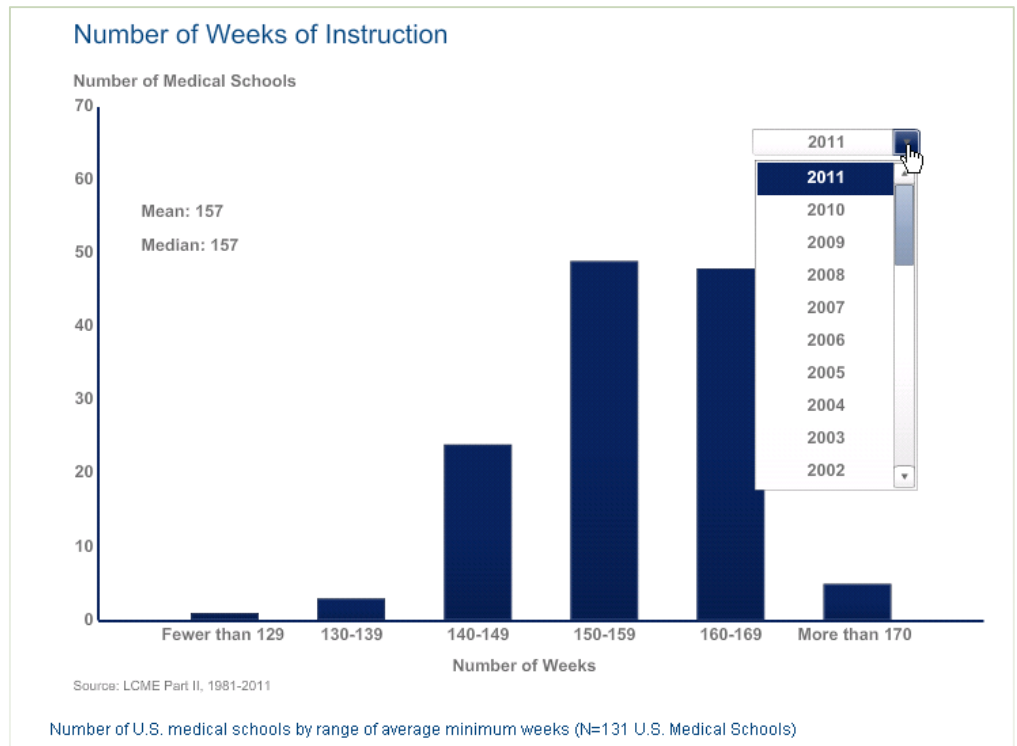


The Association of American Medical Colleges (AAMC)'s **Curriculum Inventory** provides enhanced options for health professions educators' to benchmark and conduct educational research. By incorporating MedBiquitous standards for competencies and curriculum data, the **Curriculum Inventory** is able to receive data from commercial and institution-developed curriculum management and learning management systems **without data entry**.

The **Curriculum Inventory** includes options to upload health professions curricula in a manner that demonstrates the linkages between competencies and school, course, and session objectives, as well as content mapping.

The first phase of development is focused on a **Curriculum Inventory** for US and Canadian medical schools. Additional phases that include curricular data for graduate medical education other health professions will be incorporated over time. The final product will be a resource for benchmarking and educational research related to health professions education across the continuum of healthcare education.

The **Curriculum Inventory** offers new opportunities for medical schools to compare key curriculum components against national data and support curriculum review, accreditation preparation, and educational research.



Curriculum Reports are available now at www.aamc.org/cir.

XML Standards for Sharing Data between Systems



Founded by Johns Hopkins Medicine and leading professional medical societies, **MedBiquitous** is a not-for-profit, international group of professional medical and healthcare associations, universities, commercial, and governmental organizations dedicated to advancing healthcare education through technology standards that promote professional competence, collaboration, and better patient care. MedBiquitous is accredited by the [American National Standards Institute](#) (ANSI) to develop information technology standards for healthcare education and competence.

MedBiquitous members are creating a **technology blueprint for professional healthcare education**. Based on XML and Web services standards, this blueprint will weave together the many activities, organizations, and resources that support the ongoing education and performance of healthcare professionals, creating more integrated access to educational resources. Ultimately, this blueprint will seamlessly support the learner in ways that will improve patient care and simplify the administrative work associated with education and competence assessment.

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Curriculum Management System Solutions and Vendors

The curriculum management solutions and vendors on the following pages are working with the **AAMC** and **MedBiquitous** to develop and implement standards for sharing curriculum information with the **Curriculum Inventory**, an international directory of curriculum information that will be designed, hosted, and administered by the AAMC. A list of vendors is found below and vendor descriptions* are found on the following pages.

***Curriculum Management System descriptions were provided by the vendors; inclusion in this document does not imply AAMC endorsement.**

Participating Curriculum Management System Solutions and Vendors:

1. [4iQ Solutions](#)
2. [All of E Solutions](#)
3. [Ilios](#)
4. [TUSK](#)
5. [E*Value](#)
6. [Entrada](#)
7. [Knowledge4You](#)
8. [LCMS+](#)
9. [MedHub](#)
10. [Medtrics](#)
11. [New Innovations](#)
12. [OASIS](#)
13. [one45](#)
14. [OpalQM](#)

Non-Profit Solutions



The **Ilios** Curriculum Management System addresses the needs of the Health Professions educational community by providing a user-friendly, flexible, and robust web application to collect, manage, analyze and deliver curricular information. **Ilios** manages and tracks both learners and instructors and their relationships to curricular materials and activities, enabling the tracking of educational hours, roles and role transitions for curriculum participants both internal and external to an institution. **Ilios** provides a robust, scalable delivery mechanism for calendar and scheduling information, with direct access via fully-featured user-centric calendars to critical course information, materials, and other educational systems and services, such as online course environments and digital asset archives. Built by and for the health professions, **Ilios** supports the sharing of curriculum outcomes and materials among programs, departments, schools and institutions, while maintaining the flexibility to accommodate the unique practices within our diverse health professions community. For schools already using (or considering the implementation of) online learning systems such as Moodle, Blackboard or Canvas, **Ilios** provides a backbone of curricular information to make that deployment more robust and to complement the rich online tools, activities and materials already in use. **Ilios** is distributed under the MIT (Open Source) License.

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www.iliosproject.org**Ilios**



Tufts University Sciences Knowledgebase (TUSK) is a powerful enterprise educational knowledge management system suited for institutions with complex, longitudinal, integrated health sciences curricula. In continuous development since 1994 by Tufts University, with initial support from the National Library of Medicine and the United States Department of Agriculture, **TUSK's** success stems from its deep understanding of the daily operations of health sciences academic institutions and the needs surrounding competency-based learning, teaching and assessment. Content development and management tools, as well as personalized user and Web 2.0 tools, are designed and customized in close collaboration with all user groups. These tools are integrated into one system and enable faculty, students, and administrators to carry out their daily tasks more effectively according to their local needs. **TUSK** fully supports Tufts' medical, veterinary, and dental schools and the system is installed and managed locally at other health sciences institutions in the United States, East Africa and India.

TUSK's comprehensive suite of tools deliver course content to students while serving as a content repository and curriculum management system for faculty and school administrators. Key features include content repository and management using the National Library of Medicine's Unified Medical Language System; tools for active and distance learning—including case-based learning, self-assessment, quizzes, problem-based learning, and competency-based learning and assessment; curriculum and competency management and tracking; administrative management—for evaluating and comparing training programs across any network of clinical sites or institutions, assessing competency-based education, and collecting data and creating reports for professional health sciences institutional accreditation guidelines; and mobile access.

TUSK Contact Information:

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Commercial Vendors



The **4iQ Solutions** platform empowers educators to flip the traditional classroom experience and provide individualized student-centered learning. Embedded assessment and evaluation facilitates the advanced tracking of achievement towards core educational objectives while identifying weaknesses and gaps in both performance and curricula.

4iQ utilizes the Learning Objective as a foundation to which information relates. By grouping Learning Objectives to your Program Objectives that are tied directly to Core Competency Objectives (both from an institutional as well as a governing body standpoint) you're able to effortlessly track student progress and level of cognitive learning towards your over-arching concepts and goals.

By further associating various methods of learning to your objectives, you empower students to actively take part in the learning process, choosing the types of activities that best suit their individual learning styles. By imbedding outcome measures directly into your educational objects, including assessment as well as evaluation and feedback, **4iQ** quickly provides the data needed to make quick decisions on performance deficits and gaps.

4iQ Solutions Contact Information:

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eMedley along with its constituent modules, eCurriculum, ExamN, eClas, eduSched, Evaluate, and eKeeper, is the culmination of 15+ years' experience in the education sector. Used by university health science programs in over 40 states, eMedley is the only health care education solution that offers:

- **Curriculum Mapping and Management:** Gap and overlap analyses, pre-loaded MeSH Terms, PCRS, Instructional and Assessment Methods, and more. Automatically generated curriculum web site, course syllabus template, course and session objective tracking.
- **Secure Assessment and Testing:** Lockdown browser, online and off-line testing, bubblesheet scanning, comprehensive dashboards, item bank management, group testing, grading rubrics, competency based testing, preloaded standards and medical topic tags, item analysis, score releasing, test progress monitoring, randomized ordering of test content.
- **Clinical Experience Portfolios:** Case logging, diagnosis and procedure tracking, time tracking, assignment tracking, student self-reflection, portfolios with curriculum integration, competency tracking, data dashboards, and ad-hoc reporting.
- **Scheduling:** schedule planner, preference-based planning, lottery-based scheduling, optimization scheduling, track and path scheduling, interactive site map interface, internal and external rotation scheduling, adjunct lecturer scheduling, iCal export and calendar synchronization, capacity management and tracking.
- **Evaluations:** Course and instructor evaluations, formative and summative evaluations, competency based evaluations, clinical site and preceptor evaluations, student performance evaluations, self-evaluations, and automated reminders.
- **Documentation and Credentialing Management:** affiliation agreement tracking, faculty and preceptor credentialing, student immunization and certification tracking, license expirations and renewals, automatic expiration reminders, site logistics and documentation, specialty tracking, contact management, mail merge, Dean's letter creation, and schedule driven correspondence management.

eMedley's modular structure allows health science programs to implement just the functionality that they need while allowing them flexibility to scale as requirements change. **eMedley** is based on an architecture that is highly customizable and configurable to meet each client's unique and specific needs.

eMedley's Contact Information:

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E*Value is powering healthcare education, and represents the foremost cloud-based solution in its marketplace. Delivering unrivaled UME experience, **E*Value** now supports over 65 colleges of medicine worldwide, and is leading the way on improved usability, optimized scheduling, competency-based education and other trends.

E*Value Curriculum Management is intelligently ingrained with **E*Value** didactic and clinical components, and includes robust curricular mapping, analysis, keyword look-ups, document management & search, activity linking (course & session level), assessment integration, and reporting. **E*Value** is an enterprise solution, as demonstrated by its unsurpassed patchwork elimination, seamless integration with university systems, and scalability to entire healthcare campuses. For students, faculty and administrative staff, **E*Value** is a benefits-laden powerhouse – delivering user-friendly and automated tools that support day-to-day tasks and learning activities.

E*Value is actively collaborating with its medical school and healthcare clients, MedBiquitous, and technology experts, and continues to deliver industry-defining web and mobile solutions. With our recent acquisition by Ascend Learning (www.ascendlearning.com), our growing company is well-positioned to provide unparalleled advancements to healthcare education in 2012 and beyond.

E*Value Contact Information:

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Entrada is an open source web-based platform and framework created to allow teachers, learners and curriculum managers a simple way of accessing, interacting, and managing the curriculum within their educational environment. **Entrada** is ideally suited for the health sciences because of its integrated curriculum tagging features and clerkship support; however, it can easily be modified and adapted to almost any professional program.

The **Entrada** project is built upon the philosophies of open access and collaboration, and we welcome new interest in the project. We take a different approach to eLearning compared to other more traditional learning management systems, so much so that we try not to classify **Entrada** under that umbrella to closely; think LMS without all of the silos.

Some of the core functionality that exists in **Entrada** today includes multiple organization support (i.e. Undergraduate, Postgraduate), curriculum and objective management, learning event management, complete curriculum search, interactive user driven community system, people directory, integrated self-hosted podcasting, learner notifications, integrated quizzes and gradebook, integrated Google Apps support, RSS and iCalendar ready, faculty annual reporting, medical student performance reports, and much more.

Entrada Contact Information:

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Knowledge4You Corporation is a pioneer in developing comprehensive Medical School Information Systems, streamlining the management and administration of health science education. Our experience includes but is not limited to software solutions for Medical Schools, Nursing Schools, Health Science Schools and Teaching Hospitals. **MedSIS 3C** has been developed over 16 years and in partnership with Medical Schools in North America. It is the only health science education platform to engage students, faculty, administrators and other stakeholders in **competency based medical education**.

MedSIS 3C has over 31 modules including:

- Admissions Process / Decision Letters
- Competency Based Medical Education
- Learner Records and Immunization
- Evaluations – Desktop and Mobile
- Course Scheduling and Rotations
- Electronic Letter of Appointment
- Curriculum Management
- Academic Sessions
- Registration, Letter of Good Standing
- Awards and Bursary Management
- Hospital Appointment Letter
- Alerts and Non-Compliance
- Requirement Documents
- Elective Registration
- Professionalism
- Transcripts
- Absence Tracking / Request for Time Off
- Accolades and Incident Reporting
- Preceptor Activities and Payments
- Supervisor and Location Registry
- Case Logs – Desktop and Mobile
- Longitudinal Experiences
- Reporting and Analysis
- On-Call Stipends

MedSIS 3C is a Customizable, Complete and in the Cloud solution that is used by some of the largest medical schools in North America. **MedSIS 3C** has helped our clients meet unprecedented **accreditation** with compliance in all 132 standards.

Knowledge for You Contact Information:

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Developed at Duke University School of Medicine, **LCMS+** is a comprehensive, robust and flexible enterprise software system designed for healthcare education. **LCMS+** helps make accreditation reporting faster, easier and more accurate while helping you gain greater insights to drive improved outcomes in teaching and learning.

LCMS+ offers a full suite of features: robust curriculum mapping (including EPAs), a sophisticated exam system, patient encounter tracking, clinical skills assessment, evaluations, portfolios, faculty contribution tracking, content management, messaging and discussion boards, support for team-based learning and robust reporting functionality - all in an easy-to-use, calendar-based system with highly flexible role-based access and definable security levels.

The calendar-based structure of **LCMS+** offers an individually customized schedule for students, and its multi-campus, multi-program capabilities allows schools to integrate shared elements while keeping program-specific data like financials, objectives and reporting separate.

In addition to Duke, **LCMS+** supports healthcare education programs at Yale, Penn State, Wake Forest, the University of Kansas, Temple, the University of Cincinnati and many others. **LCMS+** is also in use at schools in Tanzania, Singapore and the Caribbean.

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MedHub is a best-in-class, integrated web-enabled enterprise GME and UGME management solution developed to improve communication, collaboration, and streamline information management. The

MedHub system addresses critical functions that support both graduate and undergraduate medical education. Tools such as evaluations, curricula mapping, portfolios, case logs, schedules, didactic activities, learning modules and communications are tightly integrated to decrease redundant effort, increase efficiency and improve response to complex regulatory requirements. The result is streamlined elegant and intuitive workflow that is powerful yet very flexible. **MedHub** is the only enterprise-only LCME/GME management system designed specifically for large complex academic teaching hospitals.

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Learn Medicine, Not Software

Medtrics Lab is a team of doctors and professionals who teach, learn, and practice medicine every day. Our accreditation and education management platform, **Medtrics**, was designed by our clinical team to simplify workflow for medical schools and teaching hospitals. By combining

the latest in web and mobile technology with our obsession for great user experience design, we offer a modern solution that is loved by administrators, faculty, and the next generation of physicians.

Medtrics is a complete solution that handles all aspects of education management. Highlights include:

- Scheduling
- Competency based evaluations
- Curriculum mapping and reporting
- Events/attendance management
- Demographics
- Case/Procedure logging
- Scholarly activities
- Beautiful mobile interface
- Entrustable professional activities (EPA's)
- Intelligent dashboards

In addition to having an incredibly easy to use platform, **Medtrics** clients also have access to our team of clinical educators to develop innovative solutions for a constantly evolving healthcare environment.

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For over twenty years, **New Innovations** has built a business around empowering medical educators and administrators to provide quality medical education. We come from a unique perspective, where field expertise meets a high degree of customer empathy. Our partners in

medical education work with us to come up with solutions to problems such as: developing a curriculum that results in entrustable graduates, automating personnel matters, coordinating student schedules, and auditing student performance. Over twenty percent of all undergraduate institutions trust our Undergraduate Management Suite to allow them to focus on the health of their schools so that educators and students can focus on learning. Are you one of them?

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ONLINE ACCESS TO STUDENT INFORMATION AND SCHEDULING (OASIS) is an advanced web-based solution designed to meet the unique scheduling needs of today's medical schools. With lottery scheduling, curriculum tracking and information management capabilities, **OASIS** offers a complete scheduling management system. To facilitate the efficient exchange of data, **OASIS** integrates with systems such as Banner and PeopleSoft, as well as other custom developed student information systems.

Health science and professional schools use **OASIS** for web-based scheduling and as a central hub for collecting information from and dispersing information to students and faculty. Administrators can easily manage student records and track enrollment, curriculum and events with online access to real-time course rosters, schedules and student information. Students gain greater control over schedules, requirements and degree progress with convenient desktop and remote access to course and lottery scheduling, an online course catalog and academic records. Standard **OASIS** features include academic history, course requirements, curriculum tracking, GradeBook, Final Course Grades, lottery-based scheduling, notices, on-line course catalog and real-time reports. Additional modules include an evaluation module, with data analysis and Patient Encounter Tracking and a fully searchable electronic events calendar.

OASIS has a proven track record as a powerful and flexible web-based scheduling solution with personalized, responsive customer service. With continuous product development, **OASIS** can provide solutions that adapt to your program's individualized needs.

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Medical schools across North America, Asia, and Australia have trusted **one45** with their curriculum management, program evaluation, clinical scheduling and assessment, and accreditation reporting challenges since 2002. **one45** has the happiest clients in medical education, and we have the customer satisfaction scores to prove it.

We have helped 25 schools successfully complete their curriculum data uploads for the AAMC Curriculum Inventory Initiative. Using **one45's** CurricMap tool, you can go from curriculum spreadsheets to an accepted submission in a matter of hours. We guarantee our clients will complete their first data upload to the AAMC Curriculum Inventory in 5 days or less.

As one of the most trusted names in medical education administration software, **one45** has evolved with the changing needs of the industry. Our APIs give you the flexibility to integrate our system with your school's existing software systems in order to maximize the utility of your data, and our competency-based education tools will help you manage milestones, EPAs, and more frequent assessment over the coming years.

one45 Contact Information:

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OpalQM is a new approach to curriculum management for medical education. The **OpalQM** quality management system is a collaboration between the University of Manitoba Faculty of Medicine and Online Business Systems, a professional consulting company that has been solving organizational and technology challenges for our clients since 1986.

OpalQM is a fully customizable solution that can be tailored to meet your unique needs. **OpalQM** provides: objectives tracking, curriculum mapping and accreditation reporting; mapping from objectives, through courses, to outcomes; clinical evaluations and logs; integrated exam management; and course / rotation scheduling.

Faculty, staff and students benefit from **OpalQM's** integrated, intuitive tools to speed adoption and provide accurate data. Deans benefit from **OpalQM's** comprehensive analytic reporting solution that monitors their key quality metrics and tracks their requirements for accreditation.

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