

## **Edumeter: How Does It Work?**

*[Life of Data; Technological Infrastructure]*

Edumeter is an educational enrollment and financial management platform that uses geotemporal, bibliometric and survey data to effectively unbundle educational services and create a transparent, flexible payment structure that puts the student first. At Edumeter, we see the plight of the university system—decreased funding, increased tuition, and an overflow of applicants—as being complicated by the dominant one-plan, one-payment-fits-all model. Edumeter replaces this archaism with a pay-as-you-learn structure.

Edumeter's pay-as-you-learn model is based on a simple equation:

$$TUITION = RATE \times TIME.$$

More explicitly, Tuition equals the Time a student spends at a particular place or with a particular professional multiplied by the particular Rate associated with that place or professional.

Rate is calculated using Edumeter's proprietary rating system, which assigns an EduRank to every place (i.e., library, union), professor, lecturer, and staff member. Every EduRank then corresponds to a pay scale, and within that pay scale, a particular Rate. Lecturers of a higher EduRank, and the courses they teach, will cost more to talk to or take a course from than lecturers of a lesser EduRank. Places of a higher EduRank will be able to charge a higher fee than places of a lesser EduRank. Thus, educators and facilities will be motivated to achieve the highest EduRank, and corresponding rate, as possible. By linking compensation and prestige to the EduRank equation, Edumeter effectively challenges the system of academic tenureship that still remains prevalent in the early 21st century.

The EduRank for professors, lecturers, and staff members are calculated using the following simplified equation:

$$\frac{\text{Impact Factor} \times \text{Ave. Student Rating} \times \text{Ave. Time Spent On Campus}}{\text{Total Years Spent in Education Service}}$$

More explicitly, EduRank is calculated by multiplying the educator's Impact Factor (average number of citations per published scholarly article) with the educator's Ave. Student Rating the Ave. Time they've Spent on Campus, all divided by Total Years Spent in Educational Services. Data regarding Impact Factor will necessarily be licensed from Thomson Reuter's Web of Knowledge (WOK); student survey data will be used in partnership with the university's existing digital survey system; data regarding an educator's career will be gleaned from their most recent CV.

Time spent on campus will be calculated in the same way it is calculated for the above Tuition equation: Every campus entrance will be equipped with Access Sensors; every student, educator, and staff member will use their pre-existing campus identification cards to swipe in and out of all entry points, whether it be the door to a class, to a library, or private office. In this way, Edumeter tracks where—and for how long— students, educators, or staff spends their time.

Regarding infrastructure, Edumeter is fundamentally composed of a network of physical access sensors and external digital sources that feed Edumeter's cloud-based database— bibliometric data is pulled from Web of Knowledge using Thomson Reuter's proprietary API, and student survey data accessed via university protocols. Edumeter then employs a series of algorithms that store, crunch, and ultimately displays relevant data on the Edumeter interface, accessible via any desktop or mobile device with internet access.