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Chika Calistus Maduabuchi

MIT ID: 921 192 764

Admitted as a Regular Student for Fall Term 2022-2023

Subject	Subject Name	Lv1	Cred	Grade

FALL TERM 2022-2023	COURSE: 22 M	GRADUATE	STUDENT	
22.13	Nuclear Energy Systems	G	6	B
22.312	Engineering: Nuclear Reactors	G	12	C
22.94	Research in Nuclear Sci & Eng	G	12	P
* * *				
SPRING TERM 2022-2023	COURSE: 22 M	GRADUATE	STUDENT	
22.14	Materials in Nuc'l Engineering	G	6	B
22.15	Essential Numerical Methods	G	6	A
22.16	Nuc'l Technology & Society	G	6	D
22.94	Research in Nuclear Sci & Eng	G	6	MG
* * *				
SUMMER TERM 2023	COURSE: 22 M	GRADUATE	STUDENT	
22.94	Research in Nuclear Sci & Eng	G	24	P
* * *				
FALL TERM 2023-2024	COURSE: 22 M	GRADUATE	STUDENT	
6.7900	Machine Learning	G	12	B
22.78	Nuclear Waste Management	G	12	A
22.THG	Graduate Thesis	G	6	U
* * *				

Graduate Cumulative GPA: 3.9 (on a 5.0 scale)

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Order #: AVOW:TETZ4MFM

ISSUED 02-FEB-2024
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Issued to

Chika Maduabuchi
540 Memorial Dr
Cambridge, MA 02139-4909

Unofficial without signature
Brian E. Canavan, Registrar

Authentication of Transcript

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Academic Terms, Student Classification, and Courses

MIT's academic calendar has fifteen-week Fall and Spring Terms including exams, a ten-week Summer Term, and a four-week January Term.

Classification: Undergraduate students (Freshman, Sophomore, Junior, Senior) and Graduate students are matriculated in MIT degree programs; Special students, Exchange students, and Cross-registered students are not. Non-resident graduate students are working on doctoral thesis away from MIT.

Course: The student's Course (degree program) begins with a department or program code as listed below, followed by an option within the department. Undergraduate program options can indicate specialty area. Option codes used in graduate programs starting in Fall 1994 include: M, P, or A, Master's; D, Doctoral; CT, Transportation; RE, Real Estate Development; W, Joint with Woods Hole Oceanographic Institution. Freshmen are not permitted to register in a department. Transfer students generally enter as Sophomores.

Subject, Level, and Credit

Subject: Consists of a department or program code (see list below) followed by a period and a number. **Level (Lvl):** Subjects included in undergraduate cumulative record: **U**. Subjects included in graduate cumulative record: subject approved for (higher) graduate degree credit: **H** (through Summer 2015); other subject accepted for graduate degree credit: **G**; subject in graduate program but not accepted for graduate degree credit: **N**. **Credit:** A credit unit represents one hour of class (lecture/recitation), laboratory/design/fieldwork, or preparation per week for fourteen weeks. Three MIT credit units = one Semester Hour.

Explanation of Grades since 1980

A	Exceptionally good performance, demonstrating a superior understanding of the subject matter, a foundation of extensive knowledge, and a skillful use of concepts and/or materials.
B	Good performance, demonstrating capacity to use the appropriate concepts, a good understanding of the subject matter, and an ability to handle the problems and materials encountered in the subject.
C	Adequate performance, demonstrating an adequate understanding of the subject matter, an ability to handle relatively simple problems, and adequate preparation for moving on to more advanced work in the field.
D	Minimally acceptable performance, demonstrating at least partial familiarity with the subject matter and some capacity to deal with relatively simple problems, but also demonstrating deficiencies serious enough to make it inadvisable to proceed further in the field without additional work.
F	Failed.
J,U	J Satisfactory progress that term. U Progress not satisfactory that term. Final grade in same subject in a later term also covers this term (e.g., J/B or U/A).
P	Prior to Fall 1990: reflects performance at any of the levels A, B, C, or D. Fall 1990 through Summer 1992: for first-year undergraduates reflects performance at any of the levels A, B, or C; for other than freshmen reflects performance at any of the levels A, B, C, or D. Fall 1992 and after: reflects performance at any of the levels A, B, or C, with students graded on a P/D/F basis.
I	Incomplete. When work completed, final grade follows I (e.g., I/B).
O	Absent from the final examination, did not turn in the final paper or project, and/or was absent during the last two weeks of the term. Equivalent to a grade of F.
OX	Absence satisfactorily explained and excused. When work is completed final grade replaces the OX.
SA	Satisfactorily completed doctoral thesis.
S	Credit awarded for work done elsewhere.
URN	Subject in Undergraduate Research Opportunities Program taken for pay or as a volunteer rather than academic credit (the one unit shown does not count for degree credit).
VIS	Research subject taken as a non-degree visiting student.
&	Grade ending in & indicates Advanced Standing Exam (not included in GPA).
#	Grade ending in # indicates ROTC (not included in degree credit; not included in GPA after Summer 1994).
MG	Indicates grade not submitted by instructor.
IP	Indicates subject "in progress" in current term.
PE	Reflects performance at any of the levels A, B, or C, under an emergency disruption.
IE	Incomplete. Indicates a portion of the subject requirements has not been fulfilled, due to a major disruption of academic activities. When work completed, final grade follows (e.g., IE/B).

Freshman Grading

Prior to Fall 1990: Freshmen graded on P/F basis with F grade not recorded on transcript. Fall 1990 to Summer 2002: Freshmen graded on P/D/F basis with non-passing D and F grades not recorded on transcript. Fall 2002 and after: Freshmen graded in their second semester on A/B/C/D/F basis with non-passing D and F grades not recorded on transcript.

Cumulative Grade Point Averages

Calculated on a 5.0 scale with A = 5, B = 4, C = 3, D = 2, F and O = 0. P, PE, SA, S, URN, MG, and IP, as well as non-passing grades in Freshman year, not included in GPA. J, U, I, IE, and OX grades not included in GPA until completed. Undergraduate Cumulative GPA includes subjects at Level U and Graduate Cumulative GPA includes subjects at Level H, G, and N, and up to a maximum of 24 units of thesis.

Department and Program Codes since 1980

1	Civil and Environmental Engineering (Civil Engineering prior to Fall 1992)
2	Mechanical Engineering
3	Materials Science and Engineering
4	Architecture
5	Chemistry
6	Electrical Engineering and Computer Science
7	Biology
8	Physics
9	Brain and Cognitive Sciences (Psychology prior to Fall 1986)
10	Chemical Engineering
11	Urban Studies and Planning
12	Earth, Atmospheric, and Planetary Sciences (Earth and Planetary Sciences prior to Fall 1984)
13	Ocean Engineering (through Spring 2007)
14	Economics
15	Management
16	Aeronautics and Astronautics
17	Political Science
18	Mathematics
19	Meteorology and Physical Oceanography (through Summer 1983) (Meteorology through Summer 1980)
20	Biological Engineering (Applied Biological Sciences through Summer 2003) (Nutrition and Food Science prior to Fall 1985)
21	Humanities
21A	Anthropology (Anthropology/Archaeology from Summer 1989 through Summer 1996)
21F	Foreign Languages and Literatures (through Summer 2015)
21G	Global Languages (Global Studies and Languages through Summer 2020)
21H	History
21L	Literature
21M	Music and Theater Arts
21W	Writing and Humanistic Studies (Writing from Summer 1989 through Summer 1991)
22	Nuclear Science and Engineering (Nuclear Engineering through Spring 2005)
24	Linguistics and Philosophy
25	Interdisciplinary Science (to Spring 1983)
BE	Biological Engineering (through Summer 2006) (BEH Bioengineering and Environmental Health from Fall 1998 through Summer 2002; TOX Toxicology from Spring 1989 through Summer 1998)
CDO	Computation for Design and Optimization (through Summer 2020)
CMS	Comparative Media Studies
CSB	Computational and Systems Biology
CSE	Computational Science and Engineering
EM	Engineering Management
ESD	Engineering Systems Division
HPM	Health Policy and Management (1983-1990)
HST	Harvard-MIT Division of Health Sciences and Technology
IDS	Institute for Data, Systems, and Society
MAS	Media Arts and Sciences
OR	Operations Research
PEP	Professional Education Programs (ASP Advanced Study Program through Summer 2006; CAES Center for Advanced Educational Services from Spring 1996 through Summer 2003; EN Center for Advanced Engineering Study prior to 1995)
RED	Real Estate Development
SCM	Supply Chain Management
SDM	System Design and Management (through Summer 2010)
STS	Science, Technology, and Society
TPP	Technology and Policy Program (through Summer 1999)
UND	Undesignated Sophomore (not yet declared Course)

Used for subjects only: **SEM** Undergraduate Seminar; **CTS** Center for Transportation Studies; **CC** Concourse; **ES** Experimental Study Group; **SP** Special Programs; **AS/MS/NS** ROTC; **SRE** Division for Study and Research in Education; **EC** Edgerton Center; **WGS** Women's & Gender Studies. Subjects taken under a Cross-registration arrangement begin with the following school codes: **BU** Boston U; **HA** Harvard U; **MC** Mass College of Art and Design; **SM** School of Museum of Fine Arts; **TU** Tufts U; **W** Wellesley College.

Privacy

In accordance with the Family Educational Rights and Policy Act of 1974, as amended, information on this transcript may not be released to or accessed by any other party without the prior written consent of the student concerned. For questions please contact the MIT Registrar's Office, (617) 253-2658.

Revised October 2020