

Detecting Topics and Trends of Student Discourse across the Pandemic in Online Discussion Forum

Table 1: List of topics grouped by months. Topic label is inferred based on the top representative terms and inspection of documents with the highest probability corresponding to the topic.

S.No.	Topic Label	Representative Terms
Oct 2019		
T0	HIV/AIDS Health Awareness	disease, hiv, aid, spread, count, word, needle, factor, cause, healthy
T1	Academic Writing: storytelling	want, read, story, audience, write, character, feel, reader, rhetor, use
T2	Miscellaneous Discourse: Literature	inherited, walking, born, restore, rash, blend, suspicious, reunite, recruit, alongside
T3	Life and Philosophy	moral, action, utilitarianism, morally, person, freedom, mean, art, euthanasia, human
T4	Medical Statistics	test, positive, statistic, disease, important, negative, public, treatment, sensitivity, false
T5	Miscellaneous Discourse: Research	inherited, walking, restore, born, variable, reunite, duration, recruit, rash, pilot
T6	Public Health	health, public, organization, agency, count, research, word, provide, cancer, improve
T7	Academic Work	summary, vocabulary, mistake, noun, paper, superlative, notetaking, passage, academic, summarize
T8	Human Development	environment, development, example, drone, child, school, age, develop, time, parent
T9	Ethnic Diversity	food, american, state, group, law, people, new, act, united, community
T10	Gender Discriminaiton	woman, gender, sex, sexual, society, men, vii, case, male, law

T11	Government and Environmental Issues	rainforest, conserve, car, hit, accident, marco, rachel, deforestation, warming, claim
Nov 2019		
T0	Lived experiences	activity, exercise, day, week, time, physical, walk, cdc, count, class
T1	Religion and Science	evil, exist, god, world, image, scientific, object, existence, manifest, argument
T2	Human Development	child, school, gender, attachment, student, year, relationship, friend, parent, learn
T3	Civil rights	presentation, case, emotion, virtue, genocide, slide, job, enjoy, issue, great
T4	Immigration and Ethnic Diversity	woman, law, american, state, food, people, social, group, white, society
T5	Academic Research	credible, article, paper, response, summary, grammar, source, convincing, topic, structure
T6	Urban Life	water, city, community, quality, drinking, contaminant, information, meet, receive, report
T7	Life and Philosophy	life, moral, morality, nature, hobbes, society, virtue, contract, rule, mean
T8	Literature: Theatre	play, end, difference, philoctetes, character, antigone, euripides, sophocles, soyinka, heaney
T9	Miscellaneous Discourse	assimilate, selective, outcomes, intercourse, rare, arrange, ashamed, regional, anita, reporting
T10	Public Health	disease, health, count, public, hpv, care, vaccine, cancer, reference, treatment
T11	Academic Writing: rhetoric	use, story, sentence, audience, reader, project, read, write, word, essay
T12	Health Effects of Environmental Hazards	environmental, lead, human, skin, air, pollution, radiation, cancer, lung, pesticide
T13	Scientific Computation	variable, yaxis, bar, chart, assimilate, outcomes, intercourse, dependent, correlation, selective
Dec 2019		
T0	Literature: Poetry	use, poem, dream, tone, example, story, paragraph, frozen, reader, author
T1	Literature: Storytelling	end, shakespeare, prospero, power, forgiveness, play, work, caliban, story, version
T2	Ethnic Diversity	food, new, people, film, ethnic, american, dish, cuisine, chinese, italian

T3	Academic Work	need, write, class, work, overall, course, professor, student, writing, english
T4	Miscellaneous/Casual Discourse	conservative, privilege, mad, height, chain, variation, inevitable, widespread, pessimistic, thorough
T5	Sexual Assault and Student Justice	rape, victim, crime, case, woman, assault, college, sexual, student, report
T6	Law and Society	lump, litigious, tort, reform, corporation, lawsuit, run-away, favor, fault, international
T7	Environmental Issues	land, amazon, planet, hometown, principle, rainforest, nature, change, topic, health
T8	Health Issues	increase, health, objective, count, goal, reduce, disease, adult, sleep, word
T9	Life and Philosophy	meaningful, god, environment, experience, life, individual, existence, personality, corresponsive, death
T10	Ethics	moral, truth, morality, claim, argument, opinion, value, view, expressivism, skepticism
T11	Miscellaneous Discourse	conservative, mad, chain, variation, drop, thorough, height, inevitable, endure, provider
Jan 2020		
T0	Media and Society	medium, social, believe, watch, individual, environment, question, people, parasocial, interaction
T1	Human Nature and Society	compassion, human, believe, compassionate, nature, help, selfish, child, kind, culture
T2	Informal Interactions	quarter, hope, class, major, uci, psychology, finish, course, love, psychological
T3	Tech and Environment Research	student, technology, topic, change, problem, use, article, learn, city, education
T4	Environment Policy	bureau, gear, showcasing, climate, informed, trustworthy, trash, identification, displacement, recording
T5	Academic Writing: US Racial History	story, author, reader, audience, woman, narrative, slave, game, tell, idea
T6	Global Health	count, public, health, africa, reference, spread, medical, transportation, threat, january
T7	Healthcare and Social Inequities	health, disease, count, care, public, country, risk, reference, retrieve, healthcare
T8	Miscellaneous/Casual Discourse	bureau, showcasing, gear, trustworthy, trash, displacement, countless, annoy, identification, informed

Feb 2020		
T0	Gender Inequality	woman, right, men, slave, come, revolution, womans, abortion, equality, court
T1	Media and Law	law, film, student, use, legal, game, method, way, medium, school
T2	Miscellaneous Discourse: Case Studies	decreased, cholesterol, immensely, compass, proactive, migrate, bmc, dingyao, attest, pertain
T3	Environmental Issues	step, issue, presentation, water, solution, change, information, research, source, climate
T4	Life and Stress	compassion, help, lecture, stress, way, prejudice, week, feel, people, young
T5	Healthcare and Government	healthcare, health, state, care, country, high, count, united, medical, government
T6	Technology and Ethics	crash, driver, driverless, decreased, manufacturer, responsible, driverless, migrate, compass, immensely
T7	Academic Writing: Moral Theories	moral, factual, write, excuse, ignorance, action, sentence, read, theory, explain
T8	Public Health Crises	disease, outbreak, quarantine, vaccine, laboratory, reference, count, vaccination, public, test
Mar 2020		
T0	Miscellaneous Discourse	scary, provoke, resistance, wellness, contamination, delay, immensely, convenience, advise, fulfill
T1	Compassion and Humanity	compassion, feel, easy, help, selfcompassion, hard, self, lecture, difficult, way
T2	Student Life	time, student, school, people, work, future, income, class, study, sleep
T3	Moral Debates	deaf, parent, bring, culture, believe, child, modification, engineering, dna, debilitate
T4	Issues in Immigrant Life	life, american, people, borderplexes, live, subjective, world, solidarity, obligation, wolf
T5	Policing and Immigration	ICE, specie, agent, island, mary, scary, police, duty, experiment, provoke
T6	Climate Change and Sustainability	change, problem, believe, technology, use, sustainability, climate, responsibility, people, future
T7	China Public Health	disease, count, word, health, china, heart, congenital, rural, provide, laboratory

T8	Social Media and Legal Policies	privacy, social, information, medium, case, legal, twitter, value, important, facebook
T9	Student Lived Experiences	course, learn, day, time, class, work, quarter, hope, write, lot
T10	Academic Writing: General	use, article, read, audience, paper, essay, write, reader, synthesis, song
T11	HIV/AIDS and Community	count, community, health, hiv, word, prevention, reference, woman, men, public
T12	Miscellaneous Discourse	scary, provoke, wellness, contamination, resistance, traffic, advise, continuous, delay, weather
Apr 2020		
T0	Government Policy on COVID-19	state, government, policy, coronavirus, country, spread, pandemic, problem, disease, covi
T1	U.S Election	partner, candidate, partnership, win, basis, party, debt, polarization, harmful, ordinary
T2	Socio-cultural Deviance	culture, power, american, society, people, child, certain, social, group, act
T3	Miscellaneous Discourse	mistreat, technologybased, dissect, hierarchical, domain, investigator, considerable, restricted, horrific, exceptional
T4	Healthcare Inequities	health, poverty, disease, individual, factor, risk, help, community, food, public
T5	Literature	story, life, character, time, read, author, change, reader, live, happen
T6	Student Lived Experiences	help, school, student, class, family, know, child, teacher, feel, year
T7	Miscellaneous Discourse	technologybased, mistreat, exceptional, hierarchical, domain, dissect, restricted, intensify, investigator, outrage
T8	Student Interactions	favorite, music, workout, major, hope, excite, watch, switch, minor, criminology
T9	Inequality in Technology	use, technology, article, question, woman, human, present, medium, term, topic
May 2020		
T0	Law: Case Study	mittchell, drone, agree, miranda, arizona, warrant, violate, officer, custody, abuse
T1	Socioeconomic Inequities	box, free, inequality, functionalist, choose, wealth, determinism, conflict, future, argue
T2	Healthcare and COVID19	health, word, care, water, disease, count, public, provide, reference, test

T3	Government and Politics	government, power, policy, country, change, president, state, vote, united, citizen
T4	Cultural and Social Identities	child, woman, parent, culture, life, family, social, live, baby, society
T5	Social Effect of Technology	medium, use, question, social, example, author, human, way, technology, argument
T6	Literature	viola, orsino, night, ship, theme, twelfth, bartender, love, roll, adventure
T7	Medication and Lifestyle	presentation, medication, slide, thanks, sociocultural, appreciate, diabetes, organize, shell, invention
T8	Criminal Justice	community, crime, individual, justice, program, way, state, rate, high, prison
T9	Educational Experience	student, teacher, learn, school, class, time, able, high, education, feel
T10	Miscellaneous Discourse	sociocultural, uneducated, invention, shell, closure, clinton, bottledfed, elder, utopian, overseas
Jun 2020		
T0	Grades and Credits	rest, syllabus, extra, related, total, division, resort, satisfaction, affected, portion
T1	Public Health Inequities	health, public, provide, poverty, government, poor, resource, water, care, reduce
T2	Socializing in School	division, lazy, satisfaction, problematic, informational, occurrence, affected, cater, reward, closer
T3	Academic Work	portfolio, eportfolio, write, page, work, use, writing, paper, research, revision
T4	Miscellaneous Discourse	surface, diet, scan, base, example, destroyed, induction, problem, use, teleportation
T5	Criminal Law and Demographics	prison, individual, crime, death, people, jail, sentence, punishment, hispanic, bail
T6	Social Movements	change, social, community, movement, climate, need, feminist, right, come, help
T7	Educational Development	preschool, education, child, learn, society, technology, class, free, provide, help
T8	Political Bias in Media	medium, bias, news, partisan, party, explicitly, policy, cover, press, extent
T9	Gender Stereotypes	woman, article, society, change, technology, appearance, body, topic, look, american

T10	BLM and Social Media	medium, social, president, floyd, black, police, information, accommodate, people, platform
T11	Casual Interactions	satisfaction, division, closer, lazy, problematic, resort, disturb, affected, unfortunate, distinct