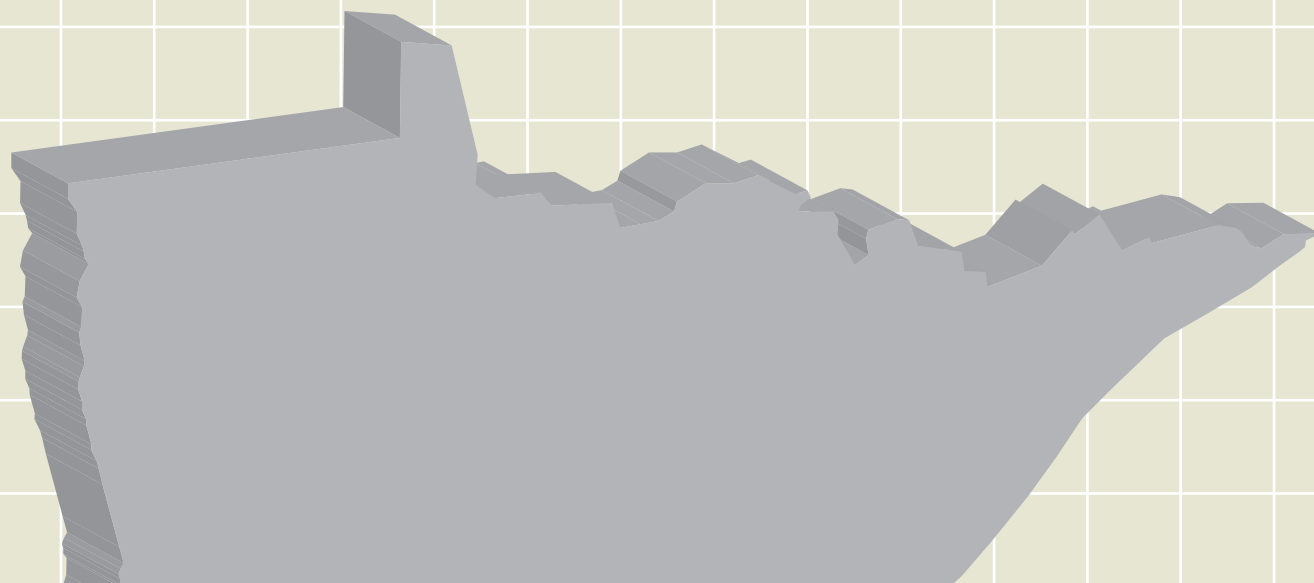


Boynton Health Service

UNIVERSITY OF MINNESOTA
Driven to Discover™

2010 College Student Health Survey Report



Health and Health-Related Behaviors

University of Minnesota–Twin Cities Students



UNIVERSITY OF MINNESOTA

2010 College Student Health Survey Report

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Introduction

Q: What do the following health conditions and health-related behaviors have in common?

- Health Insurance Status
- Depression
- Ability to Manage Stress
- Tobacco Use
- Alcohol Use
- Engagement in Physical Activity
- Credit Card Debt

A: They all affect the health and academic achievement of college students.

Across the state of Minnesota, seventeen two-year and four-year postsecondary schools joined together with Boynton Health Service at the University of Minnesota in spring 2010 to collect information from 34,097 undergraduate and graduate students about their experiences and behaviors in the areas of health insurance and health care utilization, mental health, tobacco use, alcohol and other drug use, personal safety and financial health, nutrition and physical activity, and sexual health. Of the 34,097 students who received a survey, 13,700 students completed the survey, for an overall response rate of 40.2%.

This report highlights the findings of this comprehensive survey and serves as an essential first step in identifying health and health-related behavior issues affecting college students. Boynton Health Service hopes that the information contained in this report will be helpful to college and university leaders as they strive to develop programs and policies that will assure a safe institutional environment, promote access to health care and essential services, encourage responsible student decision making and behavior, and contribute to the health, well-being, and academic success of students enrolled in their schools. The survey results are also intended to raise awareness among state and local policymakers and community leaders concerning the importance of the health of college students to the overall educational, health, and economic status of Minnesota.

Survey

Methodology

Over 13,000 undergraduate and graduate students enrolled in seventeen postsecondary institutions in Minnesota completed the 2010 College Student Health Survey, developed by Boynton Health Service. As an incentive, all students who responded to the survey were entered into a drawing for gift certificates valued at \$3,000 (one), \$1,000 (one), and \$500 (one) at a variety of stores and drawings for eleven iPod touches™.

Randomly selected students were contacted through multiple mailings and e-mails:

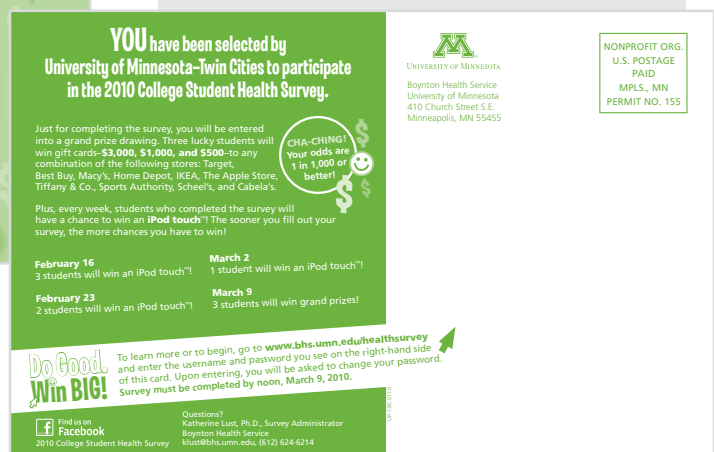
- Invitation postcard
- Invitation e-mail
- Reminder postcard and multiple reminder e-mails

A total of 34,097 undergraduate and graduate students from seventeen colleges and universities in Minnesota were invited to participate in the 2010 College Student Health Survey (see Appendix 1 for a list of participating schools).

In addition to the 34,097 randomly selected students, an oversample of 2,180 students who attended one of these seventeen Minnesota schools and were identified as veterans of the United States Armed Forces were also invited to participate in the survey. The survey results for the oversample of veterans will be treated as a separate report.

University of Minnesota–Twin Cities Methodology Highlights

- **6,071** students from the University of Minnesota–Twin Cities were randomly selected to participate in this survey.
- **2,612** completed the survey.
- **43.0%** of the students responded.



2010 College Student Health Survey Postcard

Survey

Analysis Summary

The information presented in this report documents the prevalence of various diseases, health conditions, and health-related behaviors across seven areas:

- Health Insurance and Health Care Utilization
- Mental Health
- Tobacco Use
- Alcohol and Other Drug Use
- Personal Safety and Financial Health
- Nutrition and Physical Activity
- Sexual Health

The prevalence of a disease, health condition, or health-related behavior is defined as the total number of occurrences in a population (in this case, college students) at a given time, or the total number of occurrences in the population divided by the number of individuals in that population.

Prevalence is useful because it is a measure of the commonality of a disease, health condition, or health-related behavior. For example, the College Student Health Survey asked students if they had ever been diagnosed with depression within their lifetime. For the purpose of illustration, if 100 students completed the survey and 10 of them reported they had been diagnosed with depression within their lifetime, then the lifetime prevalence of depression among this population of students is 10.0% (10/100).

The results from this survey are based on a random sample of students from each of the participating colleges and universities. Random sampling is a technique in which a group of subjects (in this case, the sample of college students) is selected for study from a larger group (in this case, the population of students enrolled at each of the participating institutions).

Each individual is chosen entirely by chance, and each member of the population has an equal chance of being included in the sample. Random sampling ensures that the sample chosen is representative of the population and that the statistical conclusions (in this case, the prevalence) will be valid.

Results

Health Insurance and Health Care Utilization

Students' current health influences their ability to realize their immediate goal of achieving academic success and graduating, and their future health affects their ability to accomplish their longer term goal of finding and sustaining a career. Access to health care has been shown to improve health. Although institutions of higher education differ in scope of services, each institution has a unique opportunity and bears a certain responsibility to address issues related to student health and to reduce barriers to health care access.

National Comparison

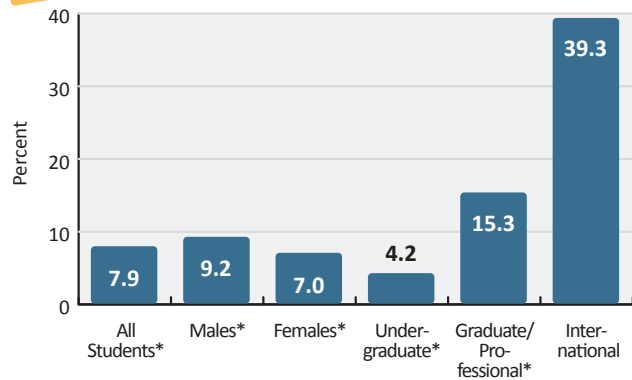
This section examines the areas of health insurance, health services utilization, and preventive care. Recent research indicates that most young adults in the United States, ages 18 to 24, report good health. The majority of young adults in Minnesota (92.5%) and nationwide (92.2%) report excellent, very good, or good health.¹ At the same time, young adults have relatively low rates of health insurance and preventive care utilization. Among individuals under age 65, 18- to 24-year-olds report the lowest rate of health insurance coverage: in Minnesota 80.9% report some kind of health care insurance, and nationwide the number is 70.3%.^{1,2} More young males (33.9%) than young females (25.4%) lack health insurance coverage.² Among all age groups, young adults (69.8%) are least likely to identify a usual place for medical care.²

Many health insurance plans allow dependents under the age of 25 to remain covered by their parents' insurance while attending a postsecondary institution. Therefore, students who attend postsecondary institutions tend to have higher rates of health insurance coverage than those who do not.

Students attending the University of Minnesota–Twin Cities (UMTC) report an overall uninsured rate of **7.9%**. Males have a higher uninsured rate compared to females (**9.2%** vs. **7.0%**, respectively).

Health Insurance Status—Uninsured

All Students

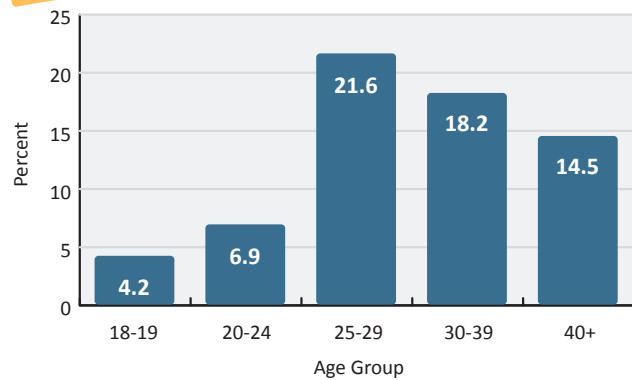


*Does not include international students.

University of Minnesota–Twin Cities students ages 25-29 report the highest uninsured rate. The lowest uninsured rates are among UMTC students ages 18-19 and 20-24. These rates may be a reflection of parental health insurance coverage for these students.

Health Insurance Status—Uninsured

All Students by Age Group



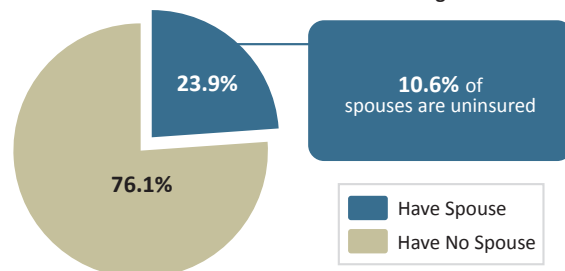
Approximately one-fourth (**23.9%**) of students who attend the University of Minnesota–Twin Cities report having a spouse, and **10.6%** of these students report that their spouse is uninsured.

Less than one in ten (**7.4%**) UMTC students reports having dependent children. Of these dependent children, **4.7%** lack health insurance.

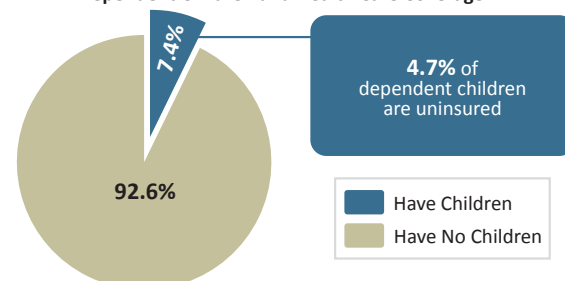
Spouse and Dependent Health Care Coverage

All Students

Marital Status and Health Care Coverage

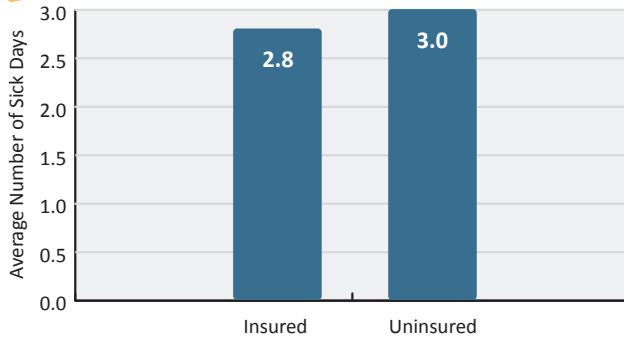


Dependent Children and Health Care Coverage



Health Insurance and Number of Sick Days— Past 30 Days

All Students

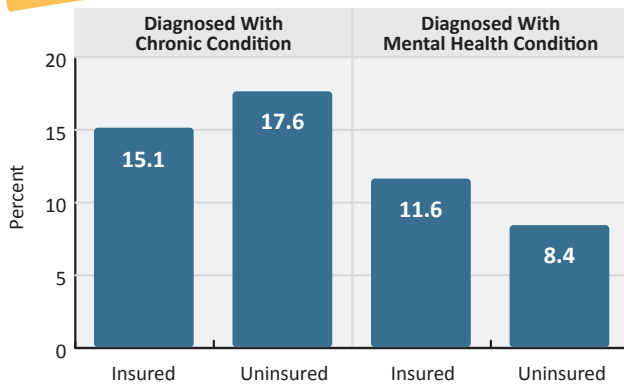


Number of sick days is a measure of health-related quality of life. Sick days reflect a personal sense of poor or impaired physical or mental health or the inability to react to factors in the physical and social environments.³

UMTC students with health insurance report on average **0.2** fewer sick days in the past 30 days than UMTC students without health insurance.

Health Insurance and Health Status

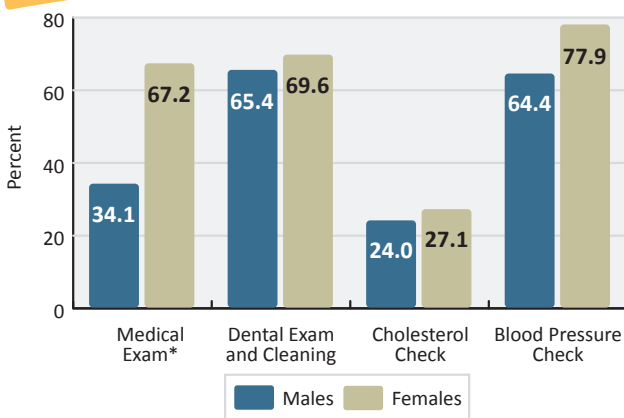
All Students



UMTC students with health insurance report a lower rate of diagnosed chronic conditions and a higher rate of diagnosed mental health conditions compared to UMTC students without health insurance.

Preventive Health Care—Past 12 Months

All Students by Gender



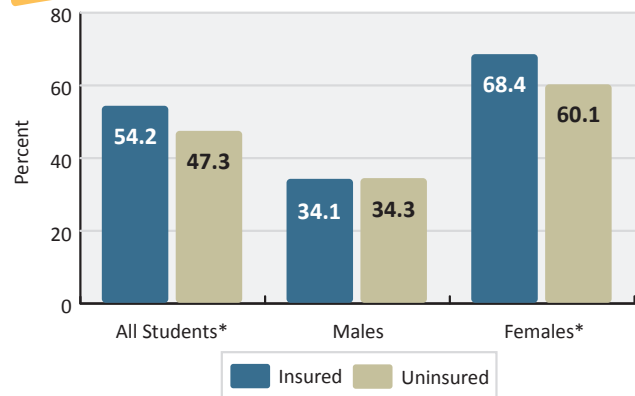
*Includes medical exam and/or gynecological exam for females.

Female students attending the University of Minnesota—Twin Cities report obtaining routine medical exams, dental exams and cleanings, cholesterol checks, and blood pressure checks at higher rates than male students attending the university.

Health insurance coverage appears to have an impact on whether female UMTC students obtained routine medical examinations within the past 12 months. Uninsured female students report a lower rate of obtaining a routine medical examination than insured female students.

Routine Medical Examination—Past 12 Months

All Students by Gender and Insurance Status



*Includes medical exam and/or gynecological exam for females.

Among University of Minnesota—Twin Cities students, the primary locations for obtaining many health care services appear to be the school health service, a community clinic, and a private practice.

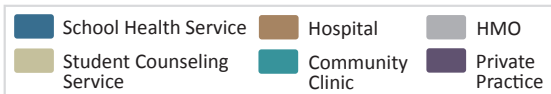
Health Care Service by Location

All Students (Includes Only Those Students Who Report Obtaining a Service in the Past 12 Months)

Question asked:

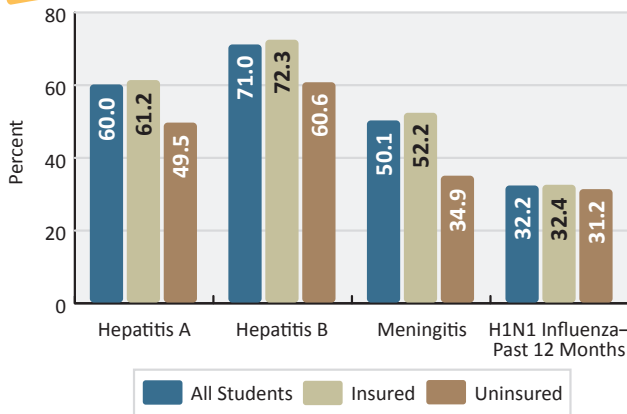
Where do you obtain the following health care services while in school?

Health Care Service (Percent of Students Who Obtained Service)	Percent Who Report Obtaining Service					
	School Health Service	Student Counseling Service	Hospital	Community Clinic	HMO	Private Practice
Routine Doctor's Visit (88.6)	33.6	0.4	10.6	26.4	7.0	28.6
Dental Care (87.1)	18.5	0.2	3.1	17.7	3.9	58.5
Mental Health Service (25.6)	30.6	21.2	6.7	13.2	3.9	27.7
Testing for Sexually Transmitted Infections (34.5)	43.3	1.3	7.5	27.2	4.4	20.2
Treatment for Sexually Transmitted Infections (17.6)	43.9	1.1	8.9	25.0	4.1	17.6
Testing for HIV (26.4)	41.4	1.0	9.7	26.3	4.2	18.1
Emergency Care (75.1)	20.3	0.2	74.8	7.6	2.5	5.0



Vaccination Status

All Students by Insurance Status



UMTC students with health insurance obtain hepatitis A, hepatitis B, and meningitis vaccinations at higher rates than students at the university without health insurance.

Currently these immunizations are not required for students enrolled in postsecondary institutions. Hepatitis B immunization, however, is required for high school students in Minnesota.

Average Number of Days Affected by Illness

All Students by Gender

Illness	Average Number of Days Affected—Past 30 Days	
Poor Physical Health	2.7	3.5
Poor Mental Health	4.2	6.3
Poor Physical and/or Mental Health Affected Daily Activities	2.3	3.2

Legend: Males (Dark Blue), Females (Light Green)

Compared to male respondents at the University of Minnesota–Twin Cities, female respondents at the university report more days of poor physical health, more days of poor mental health, and more days when poor physical and/or mental health affected daily activities.

Acute Condition Diagnosis—Lifetime and Past 12 Months

All Students

Acute Condition	Percent Who Report Being Diagnosed	
Chlamydia	2.2	0.5
Gonorrhea	0.4	0.0
Hepatitis A	0.3	0.0
Lyme Disease	1.6	0.1
Mononucleosis	10.1	1.3
Pubic Lice	1.2	0.1
Strep Throat	45.4	4.7
Syphilis	0.2	0.0
Urinary Tract Infection	19.1	6.9
At Least One of the Above Acute Conditions	56.7	12.6

Legend: Within Lifetime (Dark Blue), Within Past 12 Months (Light Green)

University of Minnesota–Twin Cities students were asked to report if they have been diagnosed with selected acute illnesses within the past 12 months and within their lifetime.

The acute condition diagnosed most frequently within students’ lifetimes was strep throat, with **45.4%** of UMTC students reporting having this diagnosis. The acute condition diagnosed most frequently within the past 12 months was urinary tract infection, with **6.9%** of UMTC students reporting having this diagnosis. Overall, **56.7%** of students report being diagnosed with at least one acute condition within their lifetime, and **12.6%** report being diagnosed with at least one acute condition within the past 12 months.

Chronic conditions are ongoing health concerns for students. Surveillance of these conditions provides a picture of longer term health care needs for students at UMTC.

The two most common chronic conditions diagnosed in University of Minnesota–Twin Cities students are allergies (**38.9%** lifetime) and asthma (**16.8%** lifetime). More than one-half (**52.9%**) of students report being diagnosed with at least one chronic condition within their lifetime, and more than one in seven (**15.4%**) report being diagnosed with at least one chronic condition within the past 12 months.

Chronic Condition Diagnosis— Lifetime and Past 12 Months All Students

Chronic Condition	Percent Who Report Being Diagnosed	
	Within Lifetime	Within Past 12 Months
Alcohol Problems	2.0	0.7
Allergies	38.9	8.0
Asthma	16.8	2.2
Cancer	0.3	0.0
Diabetes Type I	0.4	0.2
Diabetes Type II	0.2	0.1
Drug Problems (Other Than Alcohol)	1.2	0.4
Genital Herpes	1.2	0.5
Genital Warts/ Human Papilloma Virus	3.8	1.4
Hepatitis B	0.2	0.0
Hepatitis C	0.2	0.0
High Blood Pressure	4.0	1.8
High Cholesterol	4.7	1.5
HIV/AIDS	0.1	0.0
Obesity	3.8	1.7
Repetitive Stress Injury	2.0	0.7
Tuberculosis	0.8	0.1
At Least One of the Above Chronic Conditions	52.9	15.4

Within Lifetime
 Within Past 12 Months

Results

Mental Health

Mental health issues can have a profound impact on students' ability to engage fully in the opportunities presented to them while in college. These issues affect their physical, emotional, and cognitive well-being and can lead to poor academic performance, lower graduation rates, and poor interpersonal relationships.

There is increasing diversity among college students. Among undergraduates nationwide, 32.2% are minorities, 57.2% are female, and 31.0% are age 25 or older.⁴ In addition, approximately 335,000 foreign undergraduate students are studying at U.S. colleges and universities.⁴ This diversity presents a myriad of counseling concerns related to multicultural and gender issues, life transition, stress, career and developmental needs, violence, interpersonal relationships, and serious emotional and psychological problems. This array of mental health problems represents ever-increasing challenges as postsecondary institutions strive to meet the needs of their students.

National Comparison

This section examines areas related to the mental and emotional status of college and university students. Recent research shows that young adults in the United States have relatively high rates of mental health problems compared to other age groups. Based on the results of the National Comorbidity Survey Replication Study using the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders-IV criteria, 58.7% of 18- to 29-year-olds have been diagnosed with a mental disorder within their lifetime, and 43.8% of 18- to 29-year-olds have been diagnosed with a mental disorder within the previous year.⁵ Among all age groups, 18- to 25-year-olds have the highest past-year prevalence of serious mental illness, i.e., mental illness that results in functional impairment, (7.4%) and the highest past-year prevalence of major depressive episode (8.7%).⁶ More than one in ten (10.8%) young adults between the ages of 18 and 25 have received treatment for a mental health problem in the previous year.⁶

For University of Minnesota—Twin Cities students, depression and anxiety are the two most frequently reported mental health diagnoses for both lifetime and the past 12 months.

Mental Health Condition Diagnosis—Lifetime and Past 12 Months

All Students

Mental Health Condition	Percent Who Report Being Diagnosed	
	Within Lifetime	Within Past 12 Months
Anorexia	2.0	0.2
Anxiety	15.1	6.7
Attention Deficit Disorder	4.4	1.3
Bipolar Disorder	0.9	0.2
Bulimia	1.9	0.4
Depression	16.6	6.1
Obsessive-Compulsive Disorder	2.3	0.5
Panic Attacks	6.3	2.3
Post-Traumatic Stress Disorder	1.7	0.7
Seasonal Affective Disorder	3.4	1.6
Social Phobia/ Performance Anxiety	3.5	1.7

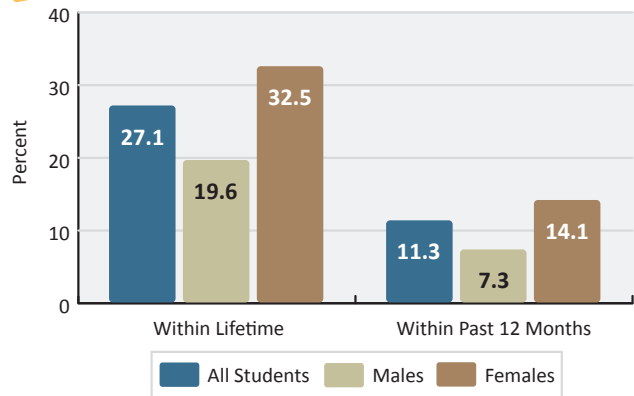
■ Within Lifetime ■ Within Past 12 Months

Among UMTC students, **27.1%** report being diagnosed with at least one mental health condition within their lifetime. Females report being diagnosed with a mental health condition within their lifetime and within the past 12 months at higher rates than males, which is consistent with gender differences seen in national data.

Additional analysis shows that **15.7%** report being diagnosed with two or more mental health conditions within their lifetime.

Any Mental Health Condition Diagnosis—Lifetime and Past 12 Months

All Students by Gender



Mental Health Stressors

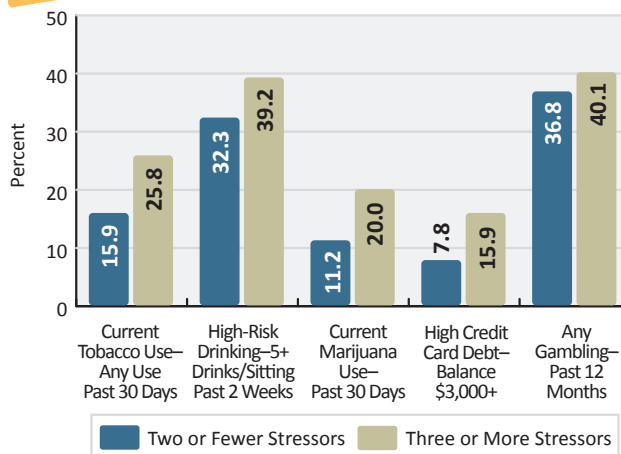
All Students

Stressor	Percent Who Report Experiencing Within Past 12 Months
Getting Married	3.5
Failing a Class	6.9
Serious Physical Illness of Someone Close to You	14.0
Death of Someone Close to You	15.8
Being Diagnosed With a Serious Physical Illness	2.5
Being Diagnosed With a Serious Mental Illness	4.7
Divorce or Separation From Your Spouse	0.7
Termination of Personal Relationship (Not Including Marriage)	16.9
Attempted Suicide	0.5
Being Put on Academic Probation	5.4
Excessive Credit Card Debt	8.0
Excessive Debt Other Than Credit Card	10.6
Being Arrested	1.0
Being Fired or Laid Off From a Job	3.6
Roommate/Housemate Conflict	19.5
Parental Conflict	12.1
Lack of Health Care Coverage	6.2
Issues Related to Sexual Orientation	2.2
Zero of the Above Stressors	36.9
One or Two of the Above Stressors	45.4
Three or More of the Above Stressors	17.7

The most commonly experienced stressors among University of Minnesota–Twin Cities students are roommate/housemate conflict and the termination of a personal relationship. A total of **45.4%** of students report experiencing one or two stressors within the past 12 months, and **17.7%** report experiencing three or more stressors over that same time period.

Mental Health Stressors and Risky Behavior

All Students



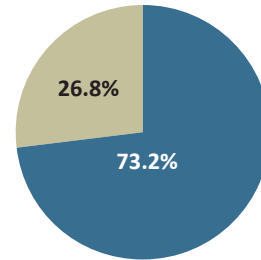
An association appears to exist between reported number of stressors experienced within the past 12 months and various types of risk-taking behavior. Over the same 12-month period, UMTC students who experienced three or more stressors tend to have higher rates of current tobacco use, high-risk drinking, current marijuana use, credit card debt, and gambling compared to students who experienced two or fewer stressors.

More than one-fourth (**26.8%**) of UMTC students report they are unable to manage their stress level. Additional analysis shows that among these students, **12.4%** also report they were diagnosed with depression within the past 12 months. Nearly three-fourths (**73.2%**) of UMTC students report they are able to manage their level of stress. Only **3.8%** of these students report they were diagnosed with depression within the past 12 months.

Ability to Manage Stress—Past 12 Months

All Students

In an attempt to measure effectiveness in managing stress, students were asked to rate their stress level and their ability to manage stress, each on a scale of 1 to 10. The reported stress level is then divided by the reported ability to manage stress. Any result greater than 1 means a student is not effectively managing his or her stress.



Managed Stress (Index ≤1) Unmanaged Stress (Index >1)

An association appears to exist between unmanaged stress levels and higher rates of diagnosis for acute and chronic conditions as well as various mental health conditions. For example, **12.8%** of UMTC students with unmanaged stress levels report being diagnosed with anxiety within the past year compared to only **4.5%** of students with managed stress levels reporting the same diagnosis.

Stress and Mental Health, Acute, and Chronic Condition Diagnosis

All Students

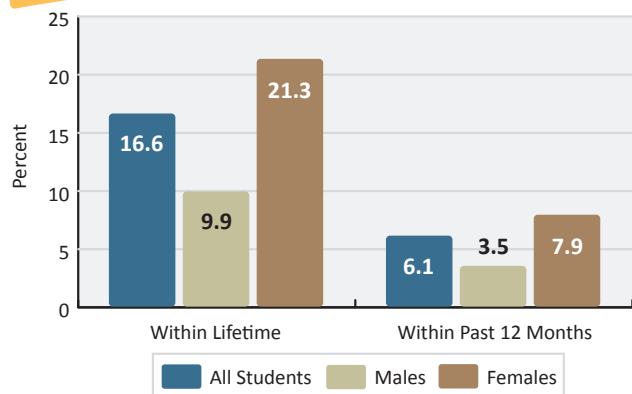
Condition	Percent Who Report Being Diagnosed Within the Past 12 Months	
	Managed Stress (Index ≤1)	Unmanaged Stress (Index >1)
Any Acute Condition	11.0	16.9
Any Chronic Condition	13.3	21.2
Anxiety	4.5	12.8
Depression	3.8	12.4
Obsessive-Compulsive Disorder	0.4	0.9
Panic Attacks	1.4	4.9
Social Phobia/Performance Anxiety	0.9	4.0

Managed Stress (Index ≤1) Unmanaged Stress (Index >1)

Depression is the mental health condition most frequently reported by University of Minnesota—Twin Cities students within their lifetime. Females report being diagnosed with depression—both lifetime and the past 12 months—at higher rates than males.

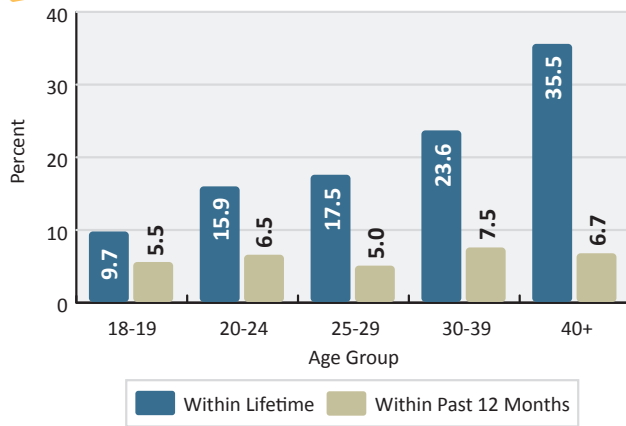
Depression Diagnosis—Lifetime and Past 12 Months

All Students by Gender



Depression Diagnosis— Lifetime and Past 12 Months

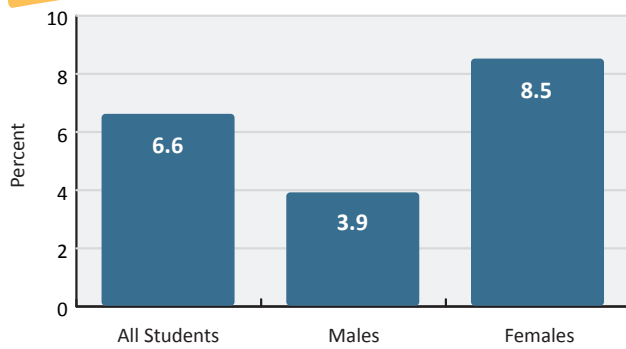
All Students by Age Group



The proportion of UMTC students who report being diagnosed with depression within their lifetime increases with age. UMTC students ages 30-39 report the highest rate of being diagnosed with depression within the past 12 months.

Currently Taking Medication for Depression

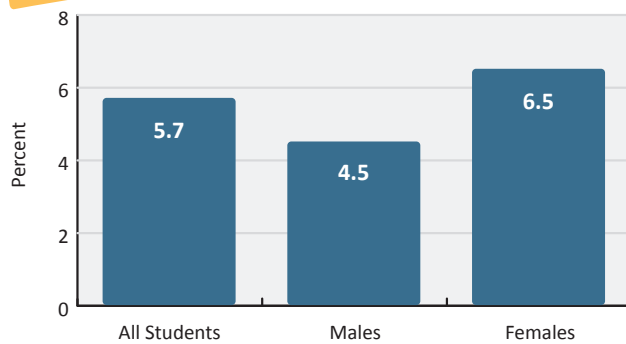
All Students by Gender



Overall, **6.6%** of University of Minnesota–Twin Cities students report they currently are taking medication for depression. Females report a higher rate of medication use for depression than males, which correlates with the higher depression diagnosis rates found in females compared to males.

Currently Taking Medication for Mental Health Problems Other Than Depression

All Students by Gender

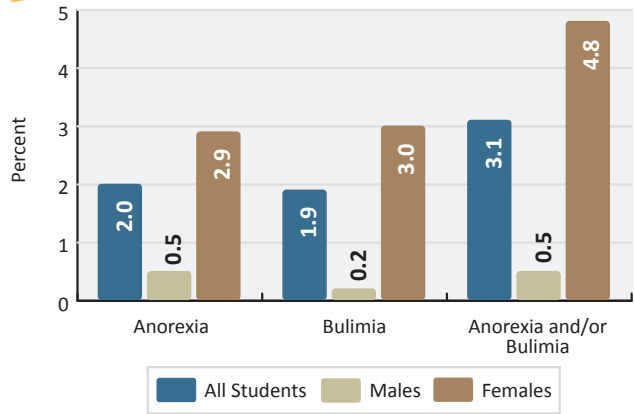


Female University of Minnesota–Twin Cities students also report a higher rate of medication use for mental health problems other than depression than the university’s male population. Overall, **5.7%** of students report taking medication for a mental health problem other than depression.

Among University of Minnesota–Twin Cities students, **0.5%** of males and **4.8%** of females report being diagnosed with anorexia and/or bulimia within their lifetime.

Eating Disorder Diagnosis–Lifetime

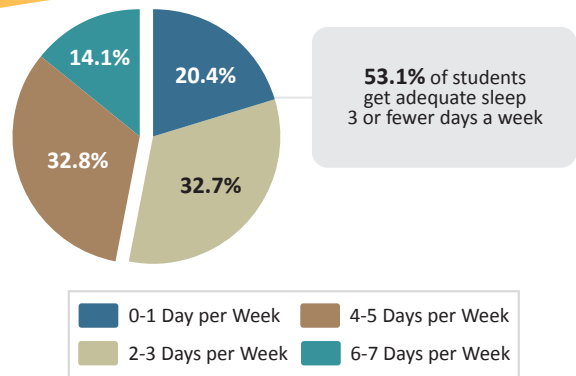
All Students by Gender



In response to a question that asked on how many of the past seven days they got enough sleep so they felt rested when they woke up in the morning, more than one-half (**53.1%**) of UMTC students report they received adequate sleep on three or fewer days over the previous seven days.

Number of Days of Adequate Sleep–Past Seven Days

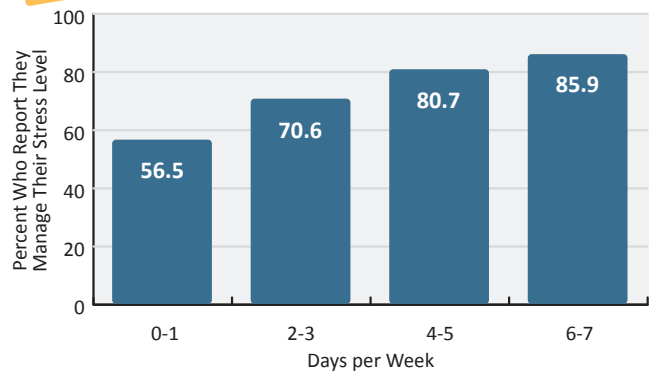
All Students



Receiving adequate sleep in the past seven days appears to have an impact on students' ability to manage their stress level. Only **56.5%** of UMTC students who report receiving 0-1 day per week of adequate sleep also report the ability to manage their stress, whereas **85.9%** of students who report 6-7 days per week of adequate sleep also report the ability to manage their stress.

Adequate Sleep and Stress

All Students



Results

Tobacco Use

Young adults transitioning between high school and college find themselves in an environment with increased opportunities to make personal and lifestyle decisions without supervision or input from their parents. Coupling this new-found freedom with growing academic pressure and an expanding social network can lead to experimentation and risky behaviors such as smoking. Preventing smoking among young adults is critical to reducing long-term use of tobacco products and the subsequent negative health consequences.

National Comparison

Recent research shows that current cigarette use by Americans of all ages peaks among young adults ages 21-25 at 37.1%, while 18- to 20-year-olds are not far behind at 33.5%.⁶ Nearly one in three (30.0%) full-time college students smoked cigarettes at least one time in the previous year, less than one in five (17.9%) smoked cigarettes at least one time in the previous 30 days, and approximately one in ten (9.2%) smoke cigarettes daily.⁷ Among young adults ages 18-25, 5.4% used smokeless tobacco in the previous month.⁶ Current cigarette smokers are more likely to use other tobacco products, alcohol, or illicit drugs than nonsmokers.⁶ Among all current smokers, 42.5% have tried to quit and have stopped smoking for at least one day in the preceding 12 months.⁸ Of the 15 million college students in the United States, an estimated 1.7 million will die prematurely due to smoking-related illnesses.⁹ Clearly the current level of tobacco use among college students poses a major health risk.

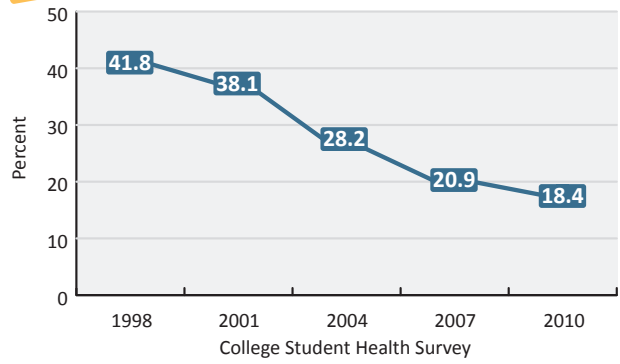
The current tobacco use rate for University of Minnesota–Twin Cities students ages 18-24 has decreased from **41.8%** in 1998 to **18.4%** in 2010.

Definition:

Current Tobacco Use

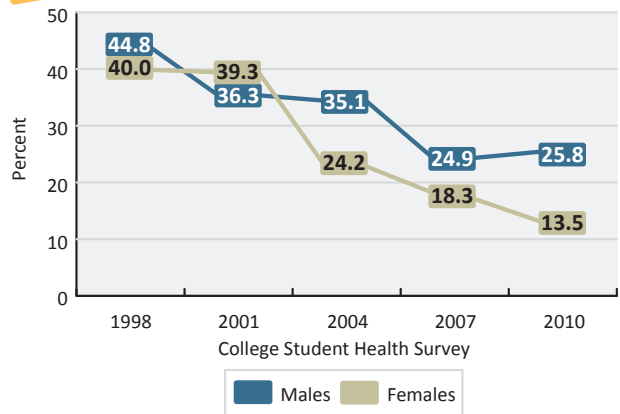
Any tobacco use in the past 30 days. Tobacco use includes both smoking and smokeless tobacco.

Current Tobacco Use—Longitudinal
18- to 24-Year-Old Students



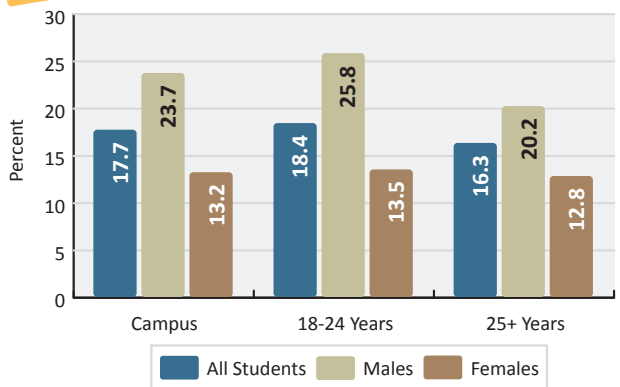
The current tobacco use rates for UMTC male and female students ages 18-24 have decreased since 1998. Comparing the current tobacco use rate of UMTC students ages 18-24 by gender over time shows that females tend to use tobacco at a lower rate than males.

Current Tobacco Use—Longitudinal
18- to 24-Year-Old Students by Gender



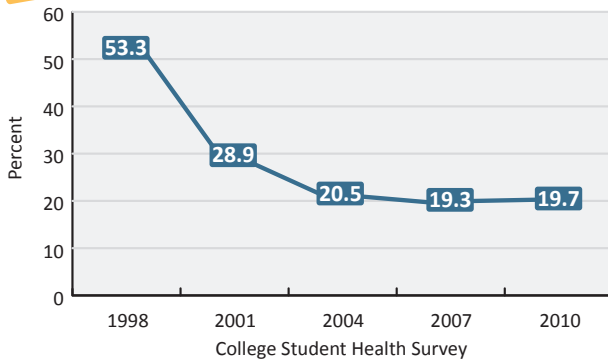
University of Minnesota–Twin Cities students ages 18-24 have a higher rate of current tobacco use compared to students age 25 and older (**18.4%** vs. **16.3%**, respectively). Within each age group, male students report a higher current tobacco use rate than female students.

Current Tobacco Use
All Students by Age Group and Gender



Current Tobacco Use—Longitudinal

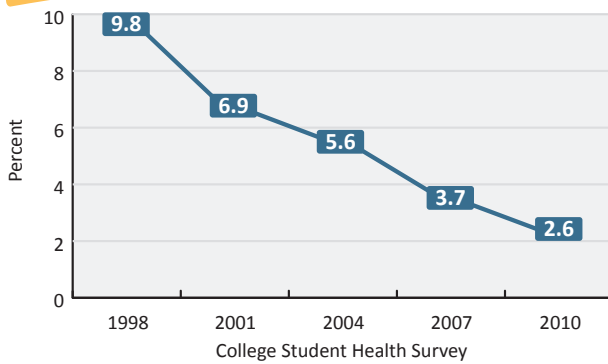
First-Year Students



The current tobacco use rate for first-year students attending the University of Minnesota—Twin Cities decreased from a high of **53.3%** in 1998 to a low of **19.3%** in 2007. The current tobacco use rate for first-year UMTC students is **19.7%**.

Daily Tobacco Use—Longitudinal

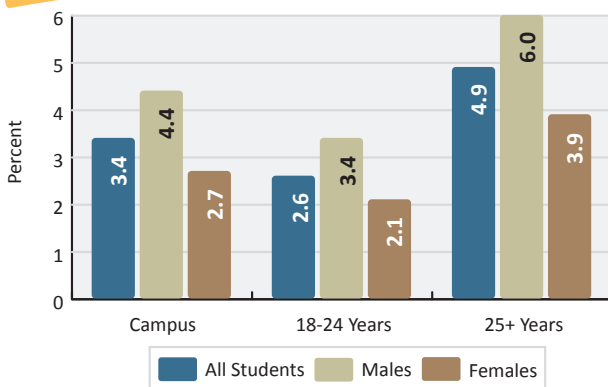
18- to 24-Year-Old Students



The daily tobacco use rate for University of Minnesota—Twin Cities students ages 18-24 has decreased from **9.8%** in 1998 to **2.6%** in 2010.

Daily Tobacco Use

All Students by Age Group and Gender

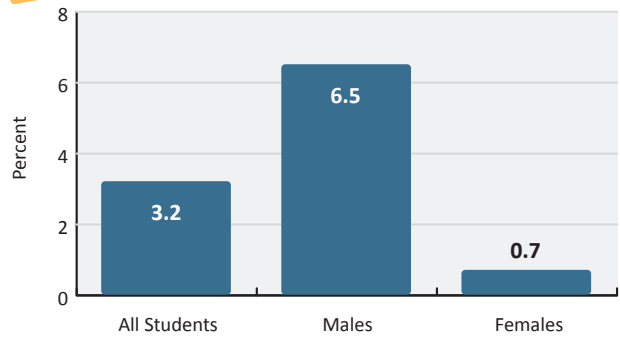


University of Minnesota—Twin Cities students age 25 and older have a higher rate of daily tobacco use compared to students ages 18-24 (**4.9%** vs. **2.6%**, respectively). Within each age group, male students report a higher daily tobacco use rate than female students.

Males are the predominant users of smokeless tobacco. Overall, **6.5%** of male University of Minnesota–Twin Cities students report using smokeless tobacco during the past 30 days.

Current Smokeless Tobacco Use

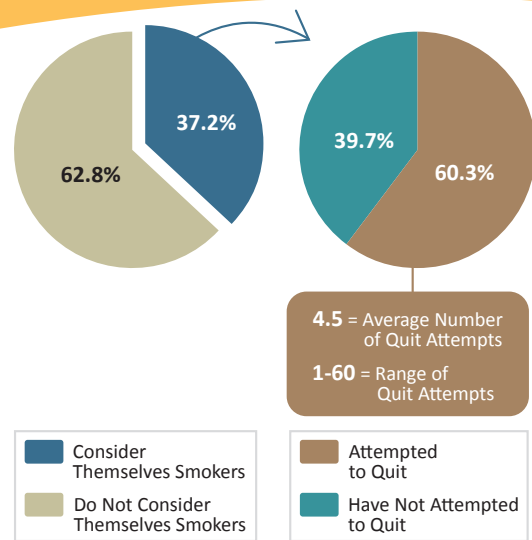
All Students by Gender



Among students at the University of Minnesota–Twin Cities who report using smoking tobacco in the past 30 days, **62.8%** do not consider themselves smokers. Among UMTC students who do consider themselves smokers, **60.3%** made at least one attempt to quit smoking over the past 12 months. These students made an average of **4.5** quit attempts during that same 12-month period.

Quit Attempts—Past 12 Months

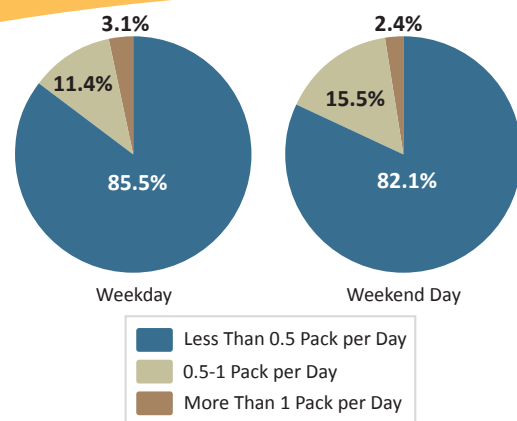
Current Smokers



For UMTC students who report using tobacco over the past 30 days, the percentage of those who say they smoke half a pack of cigarettes or more per day increases slightly from **14.5%** on a weekday to **17.9%** on a weekend day.

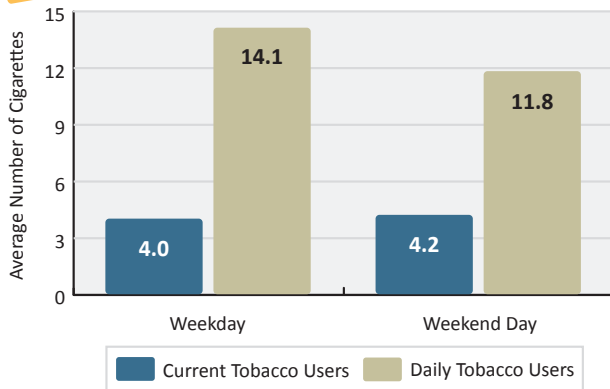
Number of Cigarettes Smoked

Current Tobacco Users



Average Number of Cigarettes Smoked

Current vs. Daily Tobacco Users



The average number of cigarettes smoked by UMTC students who are current tobacco users increases slightly from **4.0** per weekday to **4.2** per weekend day. For daily tobacco users, the average number decreases from **14.1** per weekday to **11.8** per weekend day.

Tobacco Use Location

Current Tobacco Users

Location	Percent Who Indicate Use at Specified Location	
	Inside	Outside
On Campus	6.2	58.1
Residence Halls	*	17.6
Fraternity/Sorority	4.3	12.1
Bars/Restaurants	*	51.0
In a Car	52.6	*
Where I Live	20.7	60.7
Private Parties	22.1	57.1
Work Site	*	24.3
Parking Ramp/Garage	15.7	*
Other	8.8	25.0

University of Minnesota–Twin Cities students who used tobacco in the past 30 days report the most common locations of their use are where they live (outside), on campus (outside), at private parties (outside), and in a car.

*Location not included in question.

Secondhand Smoke Exposure

All Students

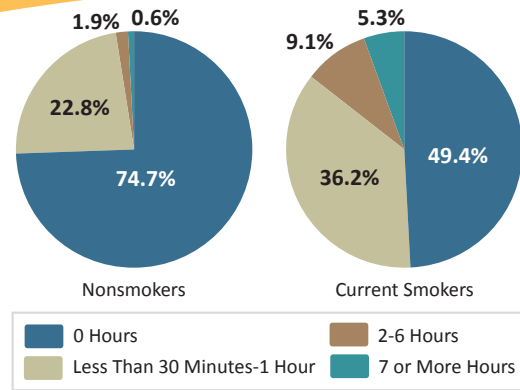
Location	Percent Who Indicate Exposure					
	Nonsmokers		Smokers		All Students	
	Inside	Outside	Inside	Outside	Inside	Outside
On Campus	4.1	52.0	4.0	52.4	4.1	52.0
Residence Halls	*	7.6	*	13.1	*	8.5
Fraternity/Sorority	0.8	2.4	3.1	10.0	1.2	3.6
Bars/Restaurants	*	21.4	*	42.4	*	24.7
In a Car	7.0	*	34.0	*	11.4	*
Where I Live	2.3	10.2	12.6	29.0	3.9	13.2
Private Parties	6.7	13.5	19.3	39.5	8.7	17.7
Work Site	*	6.0	*	15.0	*	7.5
Parking Ramp/Garage	6.4	*	8.8	*	6.8	*
Other	4.5	17.2	7.6	20.7	5.0	17.8
N/A–Never Exposed	30.6		16.0		28.2	

For both nonsmokers and smokers attending UMTC, on campus (outside) and bars and restaurants (outside) are the most commonly cited locations for exposure to secondhand smoke.

*Location not included in question.

For nonsmokers attending the University of Minnesota–Twin Cities, **2.5%** report being exposed to secondhand smoke 2 or more hours per week. For current smokers, **14.4%** report being exposed to secondhand smoke for 2 or more hours per week.

Secondhand Smoke Exposure—Per Week Nonsmokers vs. Current Smokers



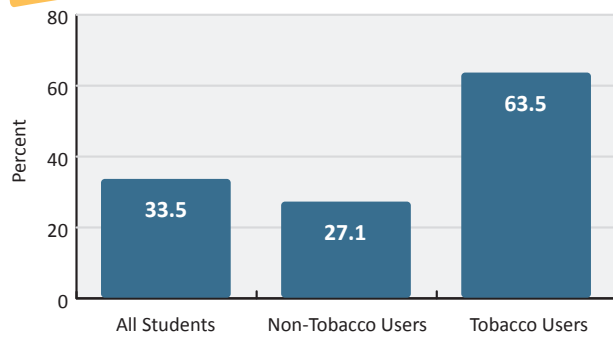
University of Minnesota–Twin Cities students who use tobacco tend to have a higher rate of high-risk drinking compared to UMTC students who are non-tobacco users (**63.5%** vs. **27.1%**, respectively).

Definition:

High-Risk Drinking

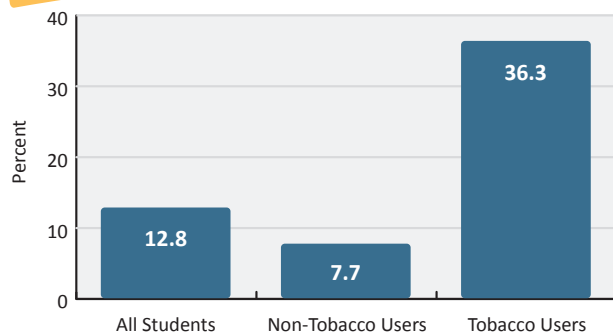
Consumption of five or more alcohol drinks at one sitting within the past two weeks for both males and females. A drink is defined as a bottle of beer, wine cooler, glass of wine, shot glass of liquor, or mixed drink.

Tobacco Use Status and High-Risk Drinking All Students



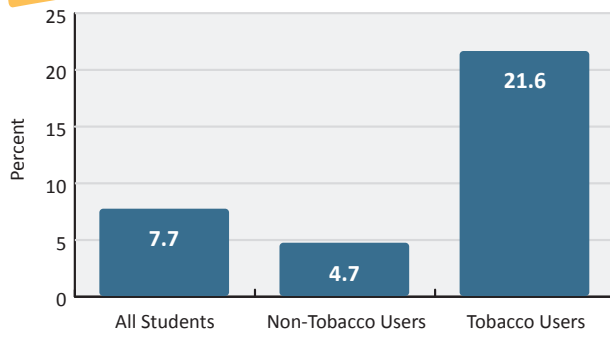
Similar to the relationship between high-risk drinking and tobacco use, use of marijuana in the past 30 days by UMTC students is higher among tobacco users (**36.3%**) compared to non-tobacco users (**7.7%**). This is a more than fourfold increase in the rate.

Tobacco Use Status and Current Marijuana Use All Students



Tobacco Use Status and Other Illegal Drug Use (Not Marijuana)–Past 12 Months

All Students



As with high-risk drinking and marijuana use, the use of other illegal drugs is associated with tobacco use. Tobacco users who attend UMTC use illegal drugs other than marijuana at more than four times the rate of non-tobacco users who attend the university (**21.6%** vs. **4.7%**, respectively).

Results

Alcohol Use and Other Drug Use

For some young adults, college life includes an introduction or increase in the use of alcohol, marijuana, and various illicit drugs. Whether students are using these substances to signify emergence into adulthood, enhance their social life, or cope with stress, substance abuse can lead to a decline in classroom performance, lower grades, aggressive behavior, property damage, and personal injury.

National Comparison

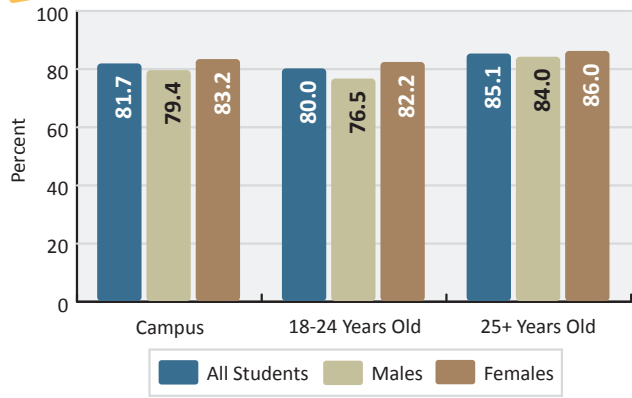
American college students consume alcohol and other drugs at very high rates. More than four in five (85.3%) full-time college students have consumed alcohol at least one time, and more than two in three (69.0%) full-time college students consume alcohol monthly.⁷ The rate of binge drinking (consuming five or more alcoholic beverages in a row in the previous two weeks) peaks between ages 21 and 25 at 46.0% and is 33.7% among 18- to 20-year-olds.⁶ Young adults ages 18 to 22 who are enrolled in college full time are more likely than their peers who are not enrolled in college full time to consume alcohol monthly and to binge drink.⁶

Approximately one-half (49.5%) of full-time college students have used an illicit drug at least once in their lifetime, more than one-third (35.2%) of full-time college students have used an illicit drug at least once in the past year, and nearly one in five (18.9%) full-time college students have used an illicit drug in the last month.⁷ Marijuana is the illicit drug of choice for full-time college students, with nearly half (46.8%) of students having used the drug at least once in their lifetime and almost one-third (32.3%) having used it in the past year.⁷ Among full-time college students, 5.7% have used amphetamines, 4.4% have used cocaine, and 0.3% have used heroin in the previous year.⁷

The past-12-month alcohol use rate for all University of Minnesota–Twin Cities students is **81.7%**. University of Minnesota–Twin Cities students age 25 and older have a higher rate of using alcohol in the past 12 months compared to students ages 18-24 (**85.1%** vs. **80.0%**, respectively). Within each age group, female students report a higher past-12-month alcohol use rate than male students.

Definition:
Past-12-Month Alcohol Use
 Any alcohol use within the past year.

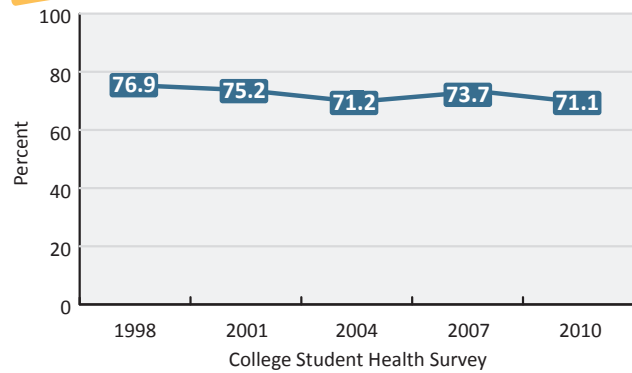
Alcohol Use—Past 12 Months
 All Students by Age Group and Gender



The current alcohol use rate for University of Minnesota–Twin Cities students ages 18-24 has decreased from **76.9%** in 1998 to **71.1%** in 2010.

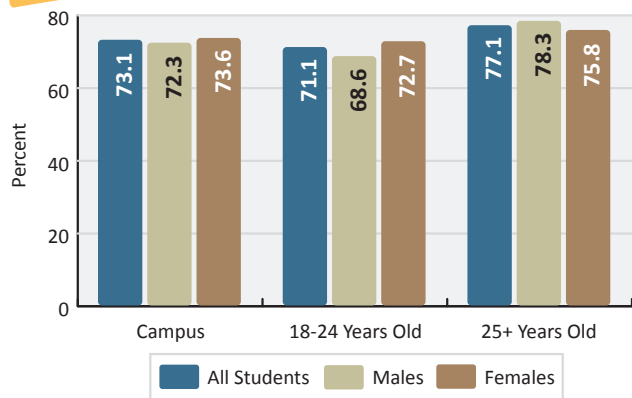
Definition:
Current Alcohol Use
 Any alcohol use within the past 30 days.

Current Alcohol Use—Longitudinal
 18- to 24-Year-Old Students

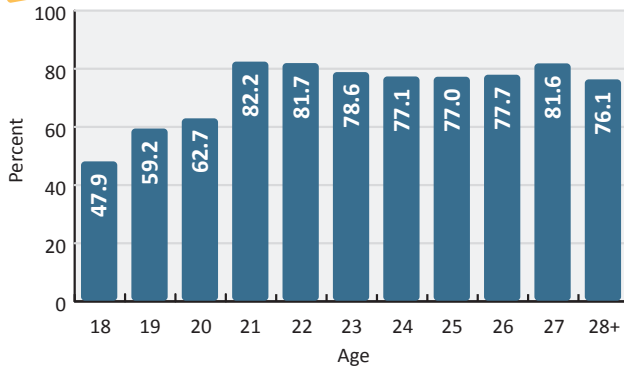


The current alcohol use rate for all University of Minnesota–Twin Cities students is **73.1%**. UMTC students age 25 and older have a higher current alcohol use rate compared to students ages 18-24 (**77.1%** vs. **71.1%**). Among UMTC students ages 18-24, females report a higher current alcohol use rate than males. Among UMTC students age 25 and older, males report a higher current alcohol use rate than females.

Current Alcohol Use
 All Students by Age Group and Gender

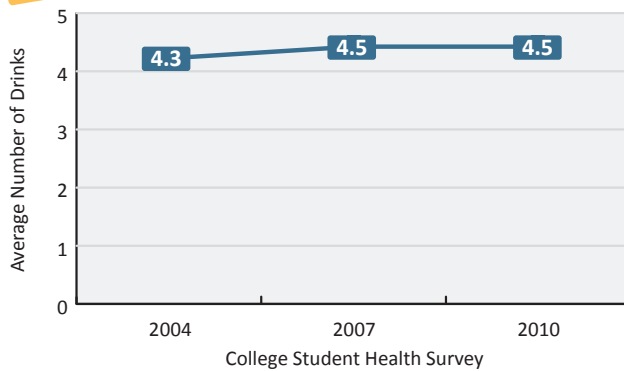


Current Alcohol Use All Students by Age



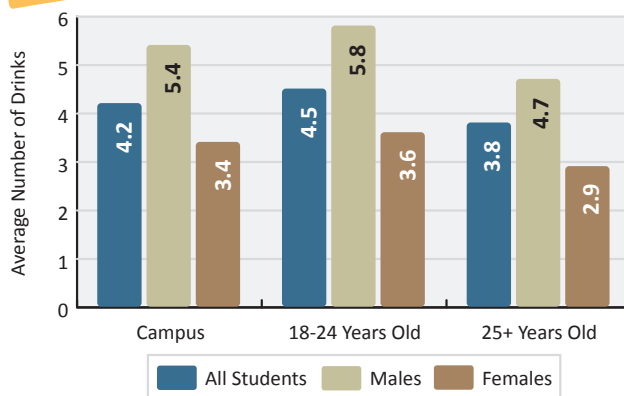
The rate of current alcohol consumption increases from **47.9%** of 18-year-old UMTC students to **82.2%** of 21-year-old UMTC students.

Average Number of Drinks per Week—Longitudinal 18- to 24-Year-Old Students



The average number of drinks consumed per week by University of Minnesota—Twin Cities students ages 18-24 has remained fairly constant since 2004. UMTC students ages 18-24 report consuming an average of **4.5** drinks per week.

Average Number of Drinks per Week All Students by Gender

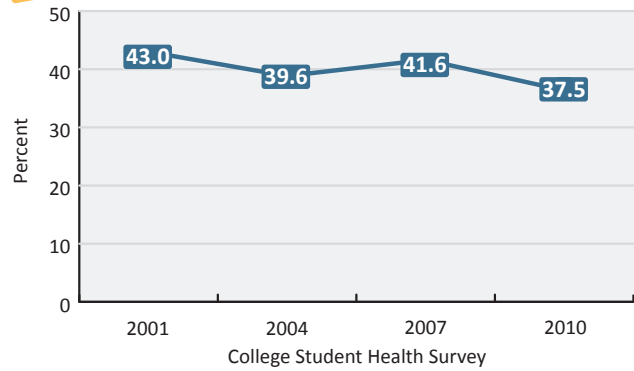


University of Minnesota—Twin Cities students consume an average of **4.2** drinks per week. UMTC students ages 18-24 consume a higher average number of drinks per week compared to UMTC students age 25 and older (**4.5** vs. **3.8**, respectively). Within each age group, male students report consuming a higher average number of drinks per week than female students.

The high-risk drinking rate for University of Minnesota–Twin Cities students ages 18-24 has decreased from **43.0%** in 2001 to **37.5%** in 2010.

High-Risk Drinking—Longitudinal

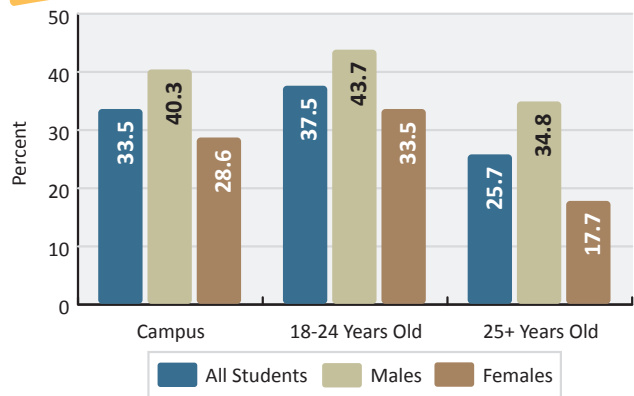
18- to 24-Year-Old Students



Approximately one-third (**33.5%**) of University of Minnesota–Twin Cities students report engaging in high-risk drinking. UMTC students ages 18-24 report a higher high-risk drinking rate compared to UMTC students age 25 and older (**37.5%** vs. **25.7%**, respectively). Within each age group, male students report a higher rate of high-risk drinking compared to female students.

High-Risk Drinking

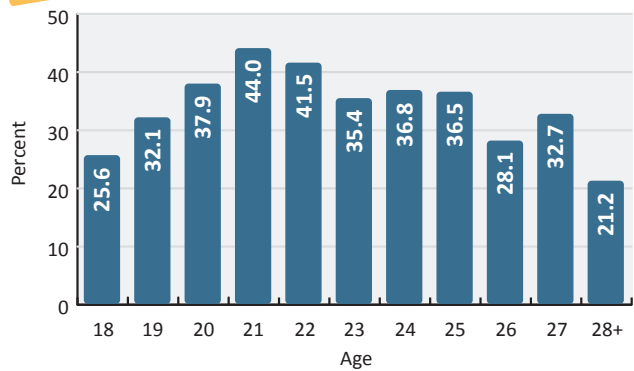
All Students by Age Group and Gender



Among University of Minnesota–Twin Cities students, the peak years for engaging in high-risk drinking are between ages 21 and 22.

High-Risk Drinking

All Students by Age



High-Risk Drinking Rates on Campus— Perceived vs. Actual

All Students

Question asked:

In the past two weeks, what percentage of students at your school do you think had five or more drinks at a sitting? (One drink = one shot of alcohol, 12-ounce can of beer, mixed drink containing 1 or 1.5 ounces of alcohol, 12-ounce wine cooler, or 5-ounce glass of wine.)

High-Risk Drinking Status	Students' Perception of High-Risk Drinking by School Peers	Actual High-Risk Drinking Rate
All Students	36.4%	33.5% of All Students
High-Risk Drinkers	45.6%	
Non-High-Risk Drinkers	31.6%	

UMTC students who have engaged in high-risk drinking tend to overestimate this behavior among their peers (**45.6%**), while those who have not engaged in high-risk drinking slightly underestimate this behavior among their peers (**31.6%**). The estimate from all students is **36.4%**, and the actual high-risk drinking rate at the university is **33.5%**.

Blood Alcohol Content

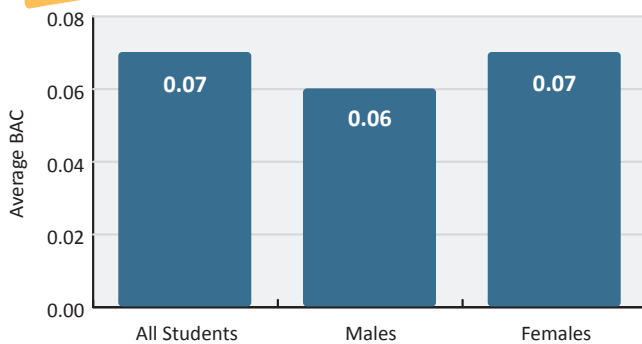
Blood alcohol content (BAC) measures the percentage of alcohol in a person's blood. The calculation of BAC is based on a simple formula that takes into account the following factors:

- Gender
- Current body weight
- Amount of alcohol consumed (number of drinks)
- Time period of consumption
- Concentration of alcohol in the beverage consumed (based on the alcohol content of one typical can of beer containing 4.5% alcohol)

The blood alcohol content of a student on the most recent socializing/partying occasion was calculated based on answers to four different survey questions (gender, current body weight, amount of alcohol consumed, and time period of consumption). It should be noted that the BAC calculated in this study is an estimate. This information is self-reported, and students tend to underestimate the actual amount of alcohol they consume.

Average Estimated Blood Alcohol Content

All Students by Gender

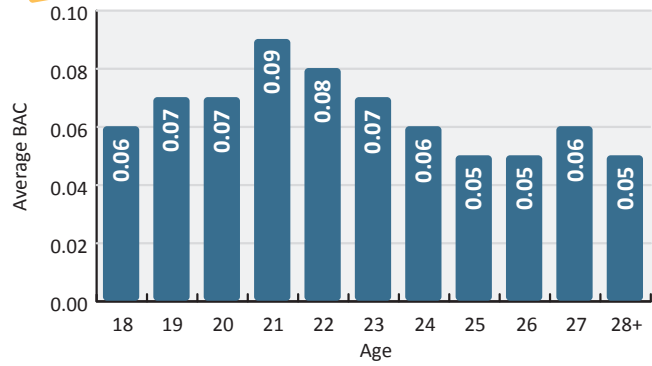


For students attending the University of Minnesota—Twin Cities, the average estimated blood alcohol content, based on the last time the student partied/socialized, is **0.07**. The average estimated BAC for females is slightly higher than the average estimated BAC for males.

The average estimated BAC levels for University of Minnesota–Twin Cities students range from **0.05** to **0.09**, with the estimated BAC for all survey respondents averaging **0.07**. Students age 21 report an average estimated BAC level of **0.09**, which exceeds the legal driving limit of 0.08 for individuals of legal drinking age.

Average Estimated Blood Alcohol Content

All Students by Age



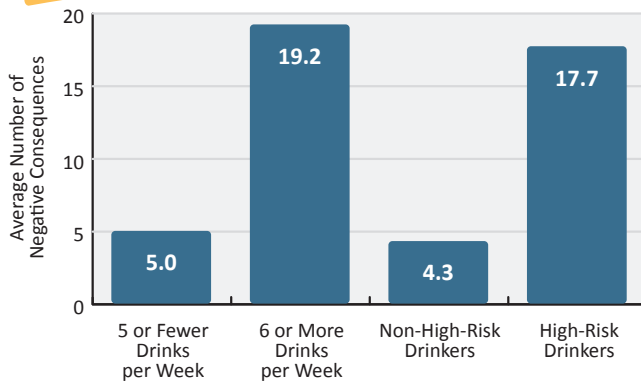
More than one in eight (**13.6%**) University of Minnesota–Twin Cities students report having driven a car while under the influence of alcohol or drugs. Among UMTC students, **21.4%** report missing a class and **17.5%** report performing poorly on a test or project as a result of alcohol/drug use.

Negative Consequences of Alcohol/Drug Use

All Students

Negative Consequence Due to Alcohol/Drug Use	Percent Who Report Experiencing Within Past 12 Months
Had a Hangover	59.8
Performed Poorly on a Test or Important Project	17.5
Been in Trouble With Police, Residence Hall, or Other College Authorities	5.0
Damaged Property, Pulled Fire Alarms, etc.	2.0
Got Into an Argument or Fight	18.0
Got Nauseated or Vomited	41.1
Driven a Car While Under the Influence	13.6
Missed a Class	21.4
Been Criticized by Someone I Know	19.4
Thought I Might Have a Drinking or Other Drug Problem	8.0
Had a Memory Loss	24.6
Done Something I Later Regretted	26.7
Been Arrested for DWI/DUI	0.7
Have Been Taken Advantage of Sexually	3.2
Have Taken Advantage of Another Sexually	0.7
Tried Unsuccessfully to Stop Using	2.6
Seriously Thought About Suicide	2.5
Seriously Tried to Commit Suicide	0.3
Been Hurt or Injured	9.2

Average Number of Negative Consequences All Students by Average Number of Drinks and High-Risk Drinking



A strong association exists between the average number of drinks UMTC students consumed per week and the total number of reported negative consequences they experienced over the past 12 months. An association also exists between engaging in high-risk drinking within the past two weeks and reported negative consequences.

High-Risk Drinking and Selected Consequences* All Students

Negative Consequence	Percent		
Driven a Car While Under the Influence	13.6	7.2	26.3
Got Into an Argument or Fight	18.0	8.6	36.5
Performed Poorly on a Test or Important Project	17.5	10.2	32.0
Missed a Class	21.4	12.5	39.2
Have Been Taken Advantage of Sexually (Includes Males and Females)	3.2	1.5	6.6

■ All Students
 ■ Non-High-Risk Drinkers
 ■ High-Risk Drinkers

*The rate for high-risk drinking is based on behavior in the past two weeks while the rate for negative consequences is based on reported experiences within the previous 12-month period.

The rates for the negative consequences identified generally are three to four times higher among UMTC students who have engaged in high-risk drinking compared to UMTC students who have not engaged in high-risk drinking. More than one in four (26.3%) students who have engaged in high-risk drinking has driven a car while under the influence of alcohol or drugs one or more times in the past 12 months.

Likelihood of Calling 911 in an Alcohol/Drug-Related Situation All Students

Response	Percent		
Very Likely	61.0	67.4	58.6
Somewhat Likely	23.7	19.2	25.5
Somewhat Unlikely	11.1	8.7	12.0
Very Unlikely	4.2	4.7	3.9

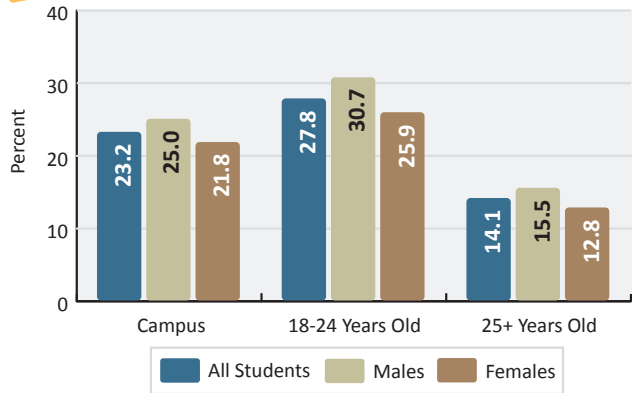
■ All Students
 ■ Students Who Did Not Use Alcohol Within the Past 30 Days
 ■ Students Who Did Use Alcohol Within the Past 30 Days

Students were asked if they would call 911 when someone “passes out” due to alcohol/drug use and they are unable to wake the individual. In this example of a situation in which 911 must be called, 61.0% of all University of Minnesota–Twin Cities students report they would be “very likely” to call for emergency assistance.

The rate for any marijuana use within the past 12 months is **23.2%** for all University of Minnesota–Twin Cities students. UMTC students ages 18-24 have a higher rate of using marijuana in the past 12 months compared to students age 25 and older (**27.8%** vs. **14.1%**, respectively). Within each age group, male students report a higher past-12-month marijuana use rate than female students.

Definition:
Past-12-Month Marijuana Use
 Any marijuana use within the past year.

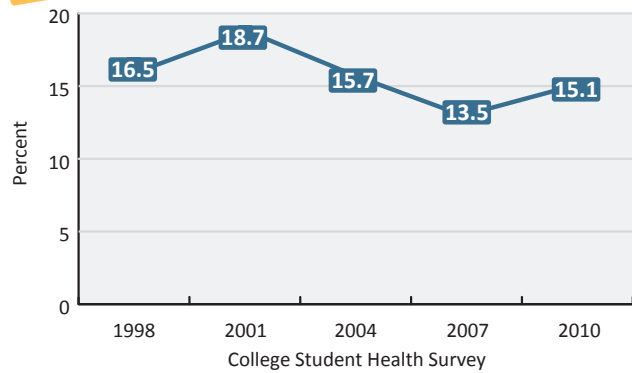
Marijuana Use—Past 12 Months
 All Students by Age Group and Gender



The current marijuana use rate for UMTC students ages 18-24 has fluctuated slightly since 1998, ranging from a high of **18.7%** in 2001 to a low of **13.5%** in 2007. The current marijuana use rate for UMTC students ages 18-24 is **15.1%**.

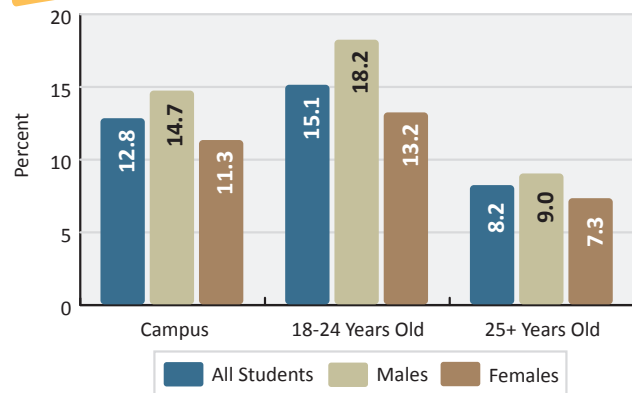
Definition:
Current Marijuana Use
 Any marijuana use within the past 30 days.

Current Marijuana Use—Longitudinal
 18- to 24-Year-Old Students



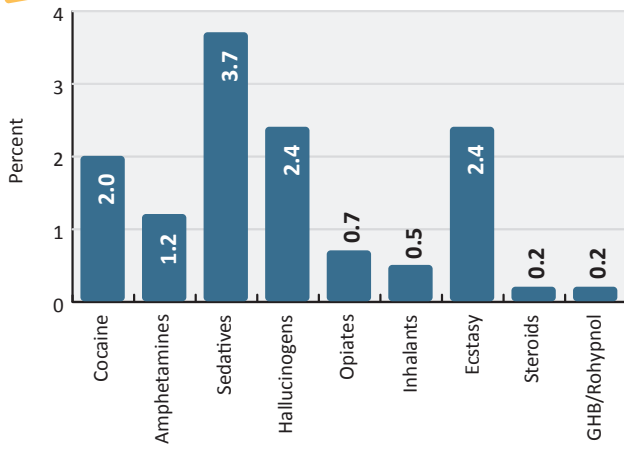
The current marijuana use rate is **12.8%** for all UMTC students. UMTC students ages 18-24 have a higher current marijuana use rate compared to students age 25 and older (**15.1%** vs. **8.2%**, respectively). Within each age group, male students report a higher current marijuana use rate than female students.

Current Marijuana Use
 All Students by Age Group and Gender



Selected Drug Use—Past 12 Months

All Students



The illicit drugs most commonly used by UMTC students are sedatives (**3.7%**), hallucinogens (**2.4%**), and ecstasy (**2.4%**). Further analysis shows that among UMTC students, **7.7%** report having used at least one of the nine listed illicit drugs. In addition, **6.5%** of students report using another person's prescription drugs.

Results

Personal Safety and Financial Health

The health of students and their subsequent success in academic life depends on a multitude of factors both intrinsic and extrinsic to the individual. Safety and personal finances are natural sources of concern for students, parents, and college personnel. A safe campus offers students the opportunity to pursue learning in an environment free from threats to their physical or emotional well-being. As college populations become more diverse, the challenge of creating a safe environment becomes more complex. Students' decisions related to finances also affect their academic success. This section concentrates on the areas of personal safety and financial health.

National Comparison

Though many efforts are made to reduce violence and victimization on campus, these unfortunate events still occur. Current data show that almost one in six (17.6%) women and one in 33 (3.0%) men in the United States have been victims of rape or attempted rape in their lifetime.¹⁰ Based on estimates by the National Institute of Justice, 20.0% of American women experience rape or attempted rape while in college, but fewer than 5.0% of college rape victims report the incident to the police.¹¹

Financial health is another area of concern. More than four in five (84.0%) college students in the United States have at least one credit card, and one-half (50.0%) have four or more credit cards.¹² The average credit card debt per U.S. college student is \$3,173.¹² More than two-fifths (41.9%) of college students report that they participated in some type of gambling activity during the previous school year.¹³

Nearly one in four (**23.5%**) female students at the University of Minnesota–Twin Cities report experiencing a sexual assault within their lifetime, with **5.0%** reporting having been assaulted within the past 12 months. Male UMTC students have experienced sexual assault at lower rates, with **5.4%** reporting an assault within their lifetime and **1.8%** reporting an assault within the past 12 months.

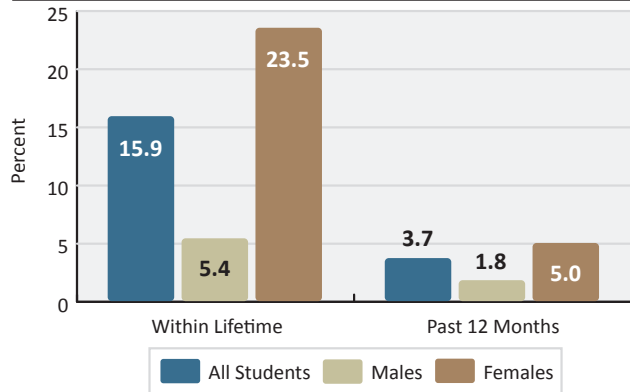
Sexual Assault–Lifetime and Past 12 Months

All Students by Gender

Sexual assault is defined as answering yes to at least one of the following two questions:

Within your lifetime or during the past 12 months, have you:

- Experienced actual or attempted sexual intercourse without your consent or against your will?
- Experienced actual or attempted sexual touching without your consent or against your will?



Among female University of Minnesota–Twin Cities students, more than one in four (**25.7%**) report experiencing domestic violence within their lifetime. More than one in eight (**13.4%**) male UMTC students reports having had the experience.

Further examination of data shows that more than one in seven (**15.8%**) students at the university report either sexually assaulting or inflicting domestic violence on another person within their lifetime. Of those who report being a perpetrator of sexual assault or domestic violence, **36.2%** indicate they have been a victim of a sexual assault within their lifetime.

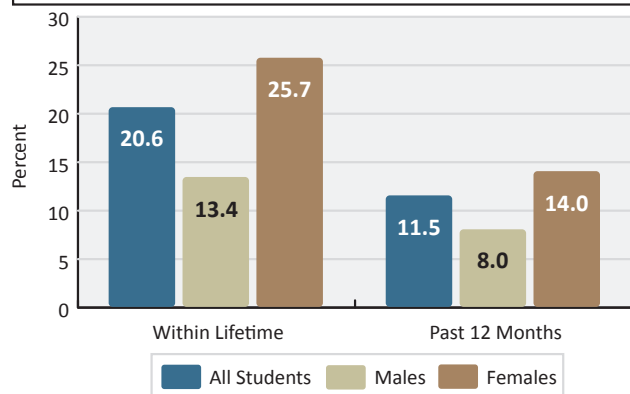
Domestic Violence–Lifetime and Past 12 Months

All Students by Gender

Domestic violence is defined as answering yes to at least one of the following two questions:

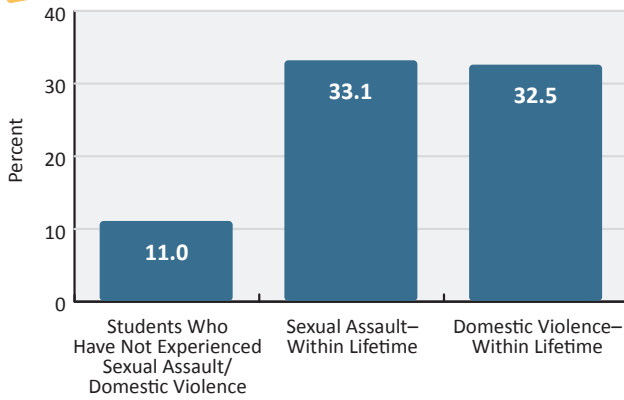
Within your lifetime or during the past 12 months, have you:

- Been slapped, kicked, or pushed by your significant other or spouse/partner?
- Been hurt by threats, “put-downs,” or yelling by your significant other or spouse/partner?



Depression Diagnosis—Lifetime

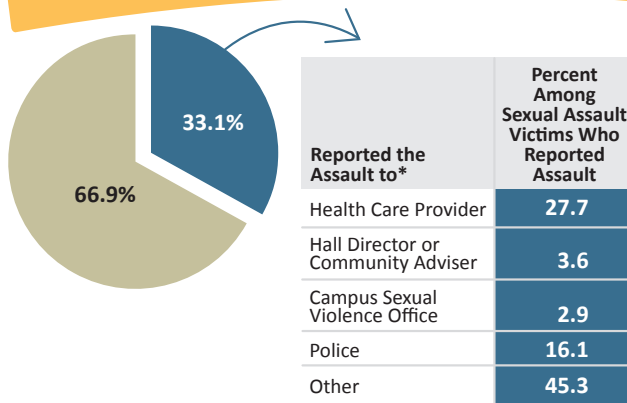
All Students by Sexual Assault/Domestic Violence



For students who report being victims of sexual assault, **33.1%** also say they have been diagnosed with depression within their lifetime; **32.5%** of victims of domestic violence say they have had a diagnosis of depression within their lifetime. It should be noted these rates are higher than the lifetime depression rate reported among UMTC students who have not experienced sexual assault or domestic violence.

Sexual Assault Reporting by Victims—Lifetime

Sexual Assault Victims

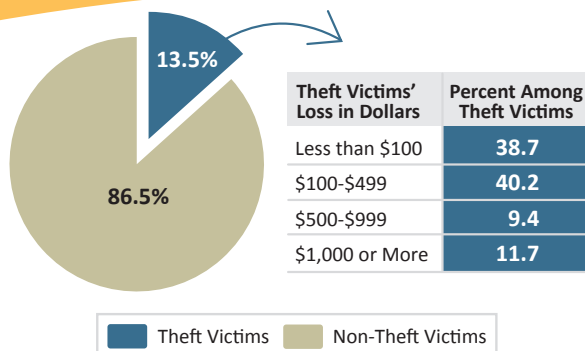


Of the University of Minnesota—Twin Cities students who indicate they have experienced a sexual assault within their lifetime (15.9%), only **33.1%** state they reported the incident. Of the UMTC students who chose to report the incident, **16.1%** reported it to the police and **27.7%** reported it to a health care provider.

*Students may have reported incident to individuals in more than one category.

Theft Victims—Past 12 Months

All Students



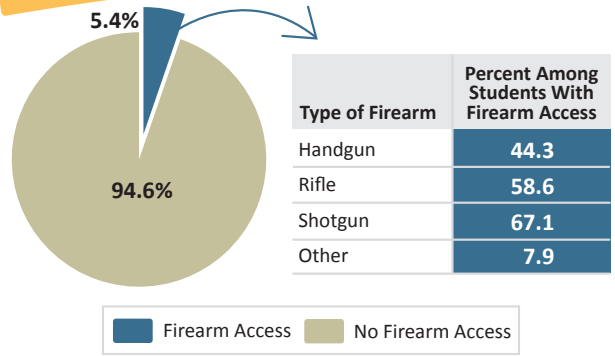
More than one in eight (**13.5%**) University of Minnesota—Twin Cities students were theft victims within the past 12 months. Of those who report experiencing a theft, **78.9%** say the amount of the theft was \$499 or less.

Approximately one in twenty (5.4%) University of Minnesota–Twin Cities students report they have immediate access to a firearm, 7.8% for males and 3.6% for females. Of those who have access to a firearm, 44.3% report they have access to a handgun.

Further analysis shows that 8.6% of students attending the University of Minnesota–Twin Cities state they carried a weapon (e.g., gun, knife) within the past 12 months. This does not include carrying a weapon while hunting.

Firearm Access

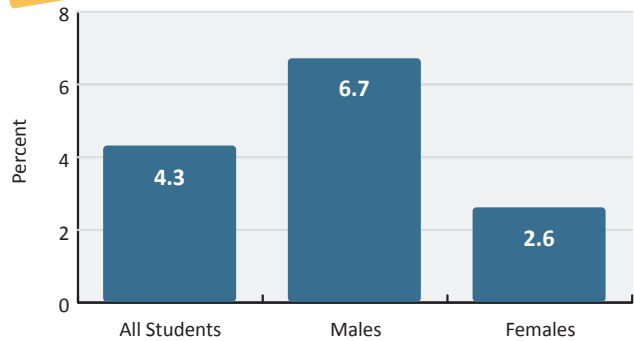
All Students



Male students at the University of Minnesota–Twin Cities are more likely to report having engaged in a physical fight over the past 12 months compared to female UMTC students (6.7% vs. 2.6%, respectively).

Physical Fight—Past 12 Months

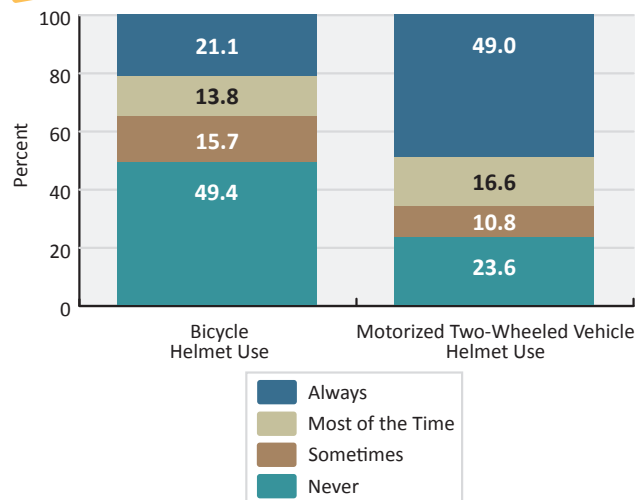
All Students by Gender



Among students at UMTC who rode a bicycle, only 34.9% report wearing a helmet always or most of the time while riding the bicycle. Nearly two-thirds (65.6%) of students who rode a motorized two-wheeled vehicle report they wear a helmet always or most of the time while on the vehicle.

Helmet Use—Past 12 Months

All Students



Injuries—Past 12 Months

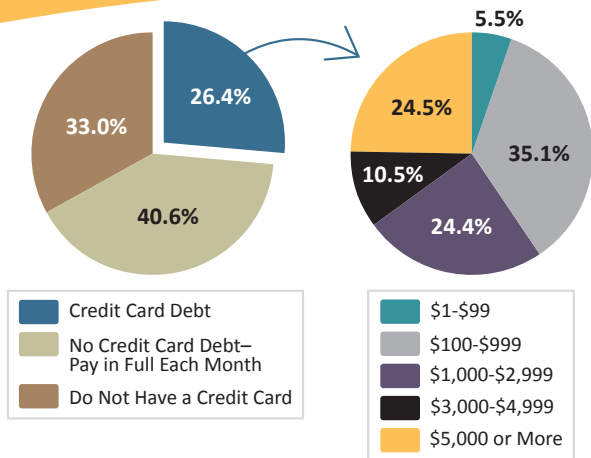
All Students

Type of Injury	Percent Who Report Experiencing Within Past 12 Months
Assaulted by Another Person (Nonsexual)	1.1
Burned by Fire or a Hot Substance	6.5
Motor Vehicle Related	1.6
Team Sports	9.6
Individual Sports	9.3
Bicycle Related	3.8
In-line Skating	0.5
Skate Boarding	0.4
Falls	13.4
Other	9.3
Not Applicable—I Was Not Injured	66.2

Approximately one in three (**33.8%**) UMTC students reports experiencing at least one injury over the past 12 months. The injuries most commonly reported during this period are due to falls and team sports.

Current Credit Card Debt

All Students



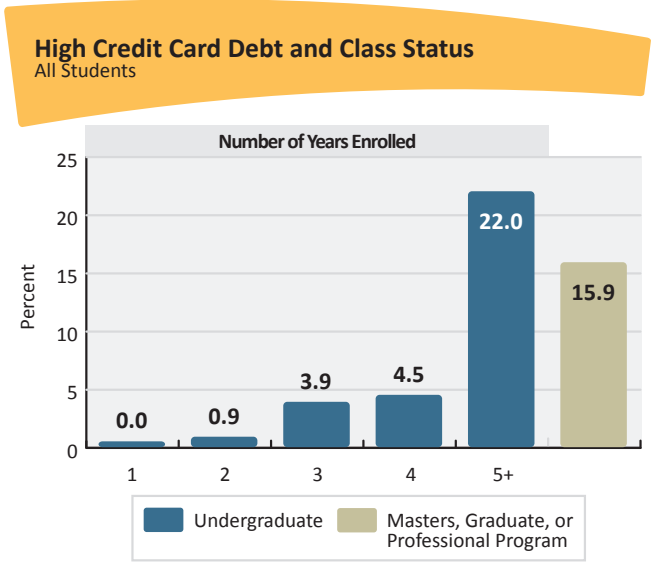
More than one in four (**26.4%**) University of Minnesota—Twin Cities students report carrying some level of credit card debt over the past month. Of those who carry a monthly credit card balance, **35.0%** report the debt as \$3,000 per month or more.

Definition:
Current Credit Card Debt

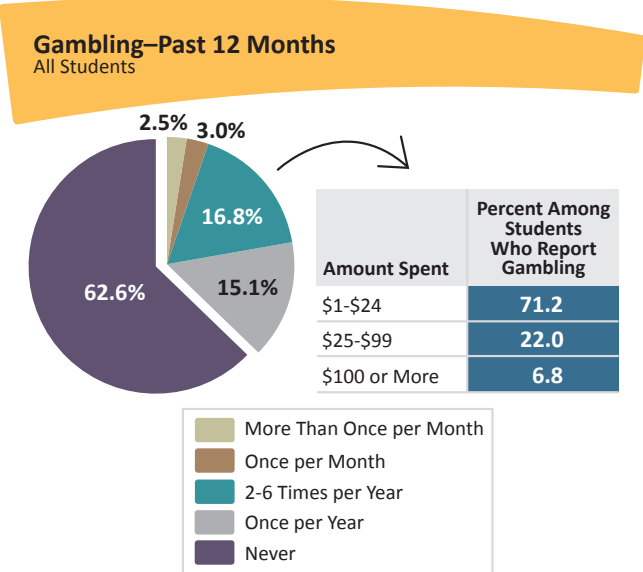
Any unpaid balance at the end of the past month.

The rate of high credit card debt increases from **0.0%** among UMTC undergraduate students enrolled one year to **22.0%** among UMTC undergraduate students enrolled five or more years. Nearly one in six (**15.9%**) students enrolled in a masters, graduate, or professional program report high credit card debt.

Definition:
High Credit Card Debt
 A monthly debt of \$3,000 or more.



Less than two in five (**37.4%**) University of Minnesota–Twin Cities students report engaging in gambling over the past 12-month period. Approximately one in twenty (**5.5%**) report gambling at least once a month. Of the **37.4%** who gambled within the past year, **6.8%** report spending \$100 or more per month.



Results

Nutrition and Physical Activity

For many students, the college years represent a time of new experiences and increased opportunities to make personal health decisions. Some of these decisions encompass the areas of nutrition and physical activity. Students are on their own, free to eat what they want, when they want. Busy academic and social schedules can take priority over eating well and exercising regularly. Class and work schedules vary from day to day and change every semester. Lifestyle changes, peer pressure, and limited finances may lead to an increase in stress, triggering overeating that results in weight gain. In addition, the steady availability of a wide variety of food, both nutritious and not so nutritious, can make wise food choices difficult.

National Comparison

Research shows that young adults in the United States generally eat fewer fruits and vegetables but are more physically active compared to older adults.¹ Young adults between the ages of 18 and 24 (23.0%) are slightly less likely than all adults (24.4%) to eat fruits and vegetable five or more times per day.¹ Young adults between the ages of 18 and 27 report consuming breakfast an average of 3.1 days per week and consuming fast food an average of 2.5 days per week.¹⁴ The rate of obesity among young adults ages 18 to 24 is 16.8%.¹

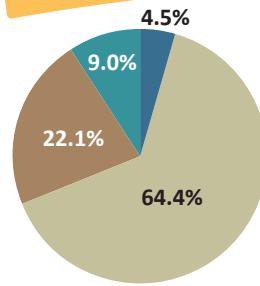
Nationwide, 81.1% of young adults between the ages of 18 and 24 compared to 75.4% of all adults report participating in at least one physical activity during the last month.¹ Approximately three out of five (60.9%) 18- to 24-year-olds report engaging in at least 30 minutes of moderate physical activity five or more days per week or at least 20 minutes of vigorous physical activity three or more days per week; for all adults, the rate is 50.5%.¹

Body mass index (BMI) is a common and reliable indicator of body fatness.¹⁵ BMI equals the weight in kilograms divided by the height in meters squared (BMI = kg/m²). This table presents weight categories based on BMI ranges.

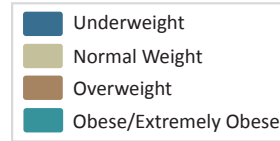
Nearly one in three (**31.1%**) University of Minnesota–Twin Cities students fall within the overweight or obese/extremely obese category. This is based on self-reported height and weight.

BMI Category

All Students



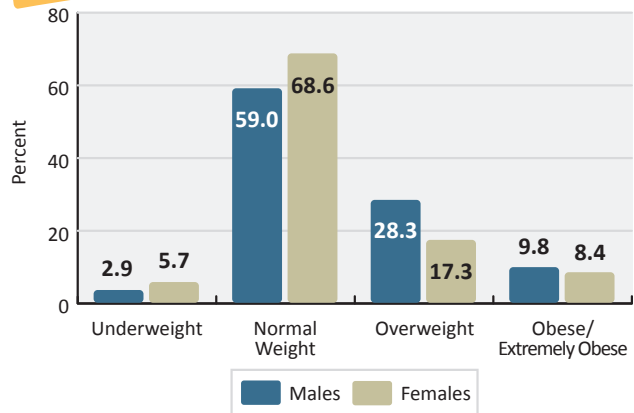
BMI Range	Weight Category
Less Than 18.5	Underweight
18.5 to 24.9	Normal Weight
25.0 to 29.9	Overweight
30.0 to 39.9	Obese
40.0 and Greater	Extremely Obese



Data analysis shows that the average body mass index for male University of Minnesota–Twin Cities survey respondents is **24.5**, and the average BMI for female UMTC survey respondents is **23.4**. For both male and female students, these averages fall within the normal weight category. Nearly two in five (**38.1%**) males and approximately one in four (**25.7%**) females fall within the overweight or obese/extremely obese category.

BMI Category

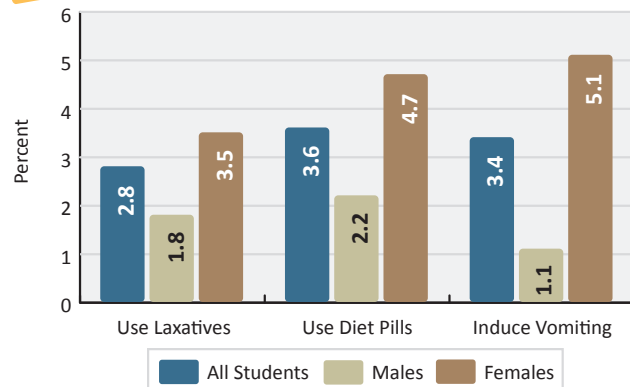
All Students by Gender



Survey respondents at the University of Minnesota–Twin Cities were asked to report their engagement in any of the following activities in an attempt to control their weight: laxative use, diet pill use, and induced vomiting. Compared to males, females engage in these behaviors at higher rates.

Weight-Related Behaviors

All Students by Gender



Weight-Related Behaviors

All Students by BMI Category

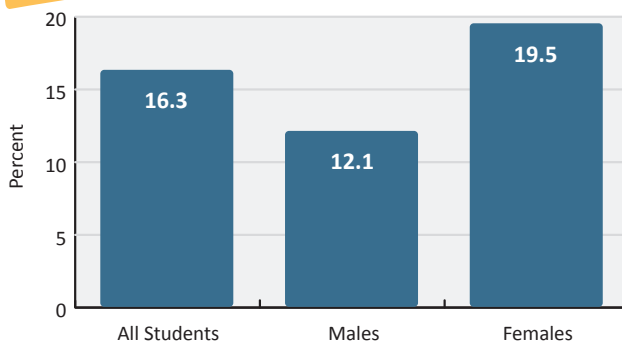
Behavior	Percent			
	Underweight	Normal Weight	Overweight	Obese/Extremely Obese
Use Laxatives	0.9	2.8	2.6	3.0
Use Diet Pills	2.6	2.6	4.4	8.6
Induce Vomiting	2.6	3.8	1.8	3.9



University of Minnesota–Twin Cities students classified as obese/extremely obese report the highest rates of laxative use, diet pill use, and induced vomiting.

Binge Eating Behavior—Past 12 Months

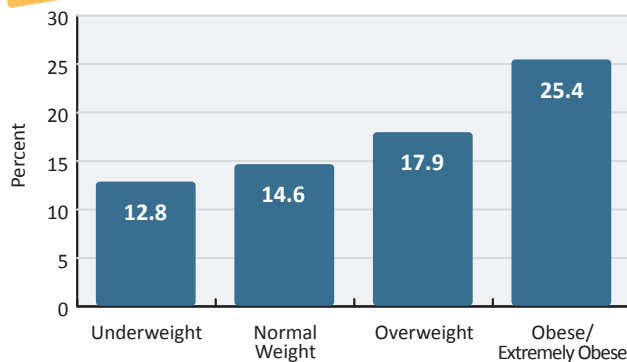
All Students by Gender



As with other weight-related behaviors, females at the University of Minnesota–Twin Cities engage in binge eating at a higher rate than males at the university. Approximately one in five (19.5%) females report they engaged in binge eating over the past 12 months.

Binge Eating Behavior—Past 12 Months

All Students by BMI Category



As BMI increases, the rate of reported binge eating behavior among University of Minnesota–Twin Cities students also increases.

UMTC students classified as obese/extremely obese report the highest rates of never eating breakfast within the past seven days, of eating at a restaurant once a week or more within the past 12 months, and of fast food consumption once a week or more within the past 12 months.

Meal Patterns

All Students by BMI Category

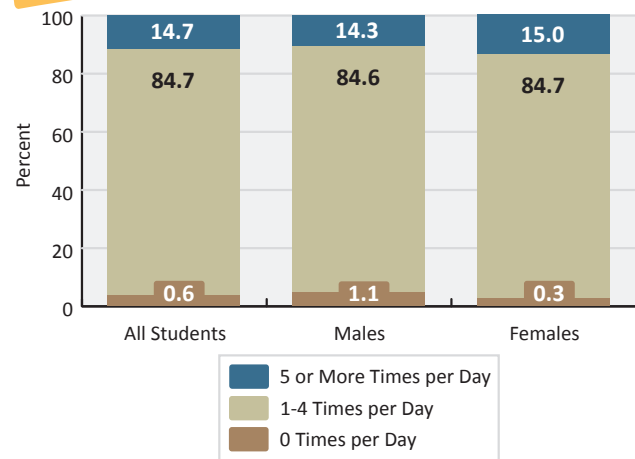
Behavior	Percent			
Breakfast Consumption (Past 7 Days)				
0 Days per Week	3.4	4.5	5.8	7.3
1-3 Days per Week	31.6	20.1	25.4	26.6
4-7 Days per Week	65.0	75.4	68.8	66.1
Fast Food Consumption (Past 12 Months)				
1-2 Times per Month or Less	70.9	71.1	63.4	49.8
Once per Week or More	29.1	28.9	36.6	50.2
Eat at Restaurant (Past 12 Months)				
1-2 Times per Month or Less	57.3	54.1	50.7	43.3
Once per Week or More	42.7	45.9	49.3	56.7



A majority of UMTC students consume fruits and vegetables one to four times per day. Only **14.7%** of all students consume fruits and vegetables five or more times per day. Based on the reported number of times per day fruits and vegetables are consumed, an average number of times per day can be calculated. Males consume fruits and vegetables on average **3.0** times per day, and females consume them on average **3.1** times per day.

Fruit and Vegetable Consumption—Per Day

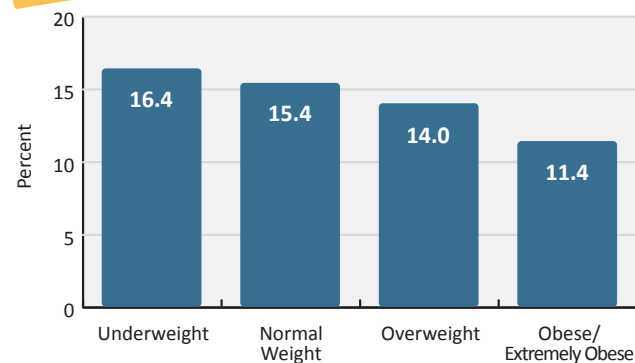
All Students by Gender



Across all BMI categories, the majority of UMTC students eat less than the recommended amount of fruits and vegetables per day. Only **11.4%** of obese/extremely obese students eat fruits and vegetables five or more times per day.

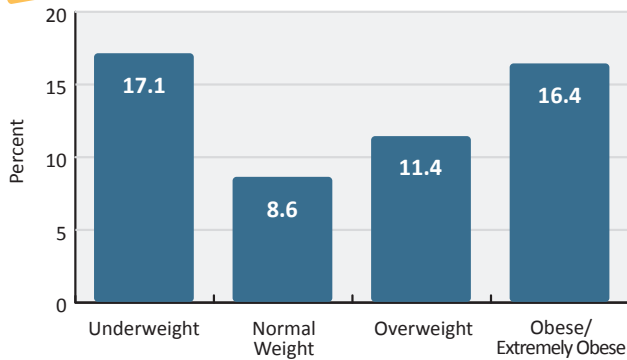
Fruit and Vegetable Consumption—5 or More Times Per Day

All Students by BMI Category



Daily Regular Soda Consumption

All Students by BMI Category



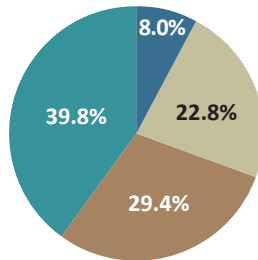
UMTC underweight and obese/extremely obese students report higher levels of daily consumption of regular soda compared to normal weight and overweight students. It should be noted that the number of students who consume regular soda on a daily basis does not reflect the actual quantity of soda consumed per day. In the survey, students were also asked to report their consumption of diet soda. Among those classified within the obese/extremely obese category, **25.3%** report daily consumption of diet soda compared to **7.8%** of those classified within the underweight category.

Physical Activity Level

All Students

The Centers for Disease Control and Prevention's recommendations for adults are to:

- Engage in moderate-intensity physical activity for at least 30 minutes on five or more days of the week or
- Engage in vigorous-intensity physical activity for at least 20 minutes on three or more days per week.¹⁶



Students were asked several questions related to their physical activity level. The two survey questions that relate to recommendations outlined by the Centers for Disease Control and Prevention (CDC) (see CDC's recommendations listed at left) are:

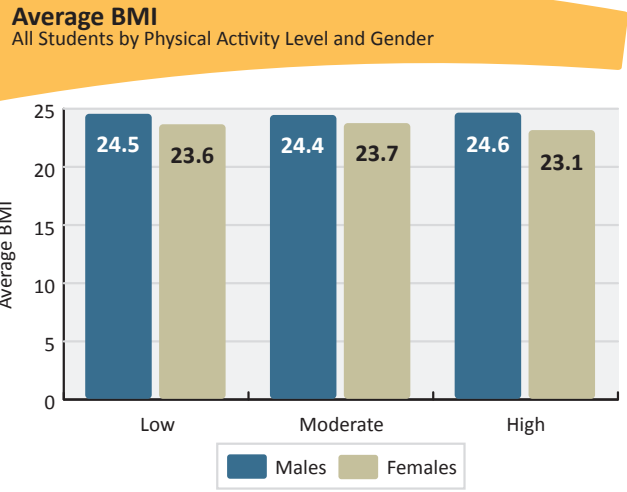
In the past seven days, how many hours did you spend doing the following activities?

- Strenuous exercise (heart beats rapidly)
- Moderate exercise (not exhausting)

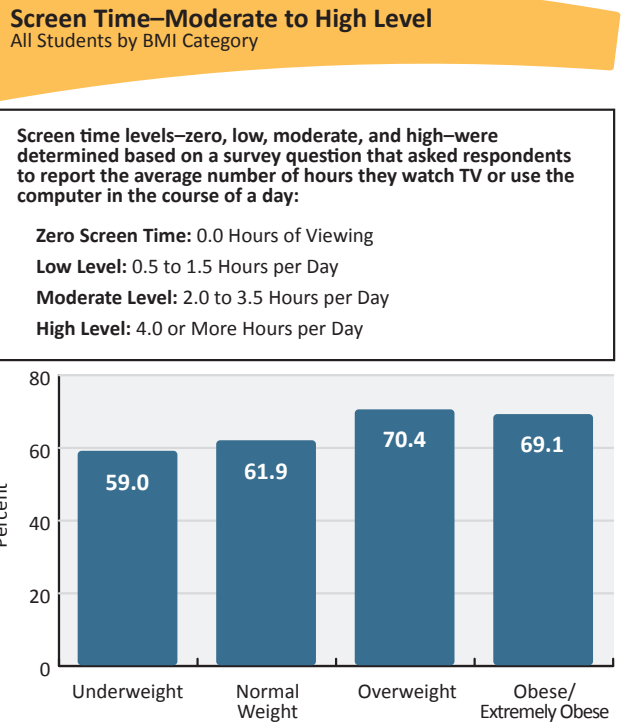
Based on their response to the two questions, students were classified into one of four physical activity levels (zero, low, moderate, or high). The moderate and high classifications meet the CDC's recommended level of physical activity.

More than two out of three (**69.2%**) UMTC students report levels of physical activity that place them in the moderate or high classification, meeting the CDC's recommendations.

For male and female UMTC students, no association appears to exist between physical activity level and average BMI. It should be noted that the average BMI levels for male and female UMTC students in all physical activity levels fall within the normal weight category.



University of Minnesota-Twin Cities overweight and obese/extremely obese students report higher levels of screen time than underweight and normal weight students. Additional data analysis shows that nearly two-thirds (64.1%) of UMTC students report watching TV or using the computer (not for work or school) two hours or more per day. Among all students, 3.6% report zero screen time, 32.3% report a low level of screen time, 36.6% report a moderate level of screen time, and 27.5% report a high level of screen time.



Results

Sexual Health

College is a time of great transition. With its increase in freedom and decision-making opportunities, this transitional period poses many challenges for students. Some of the most important decisions facing college students concern sexual health. Choices relating to sexual behavior have the potential for significant, and oftentimes long-term, consequences. So important is the issue of sexual health that in 2001 the U.S. Surgeon General listed “responsible sexual behavior” as one of the 10 leading health indicators for the nation.

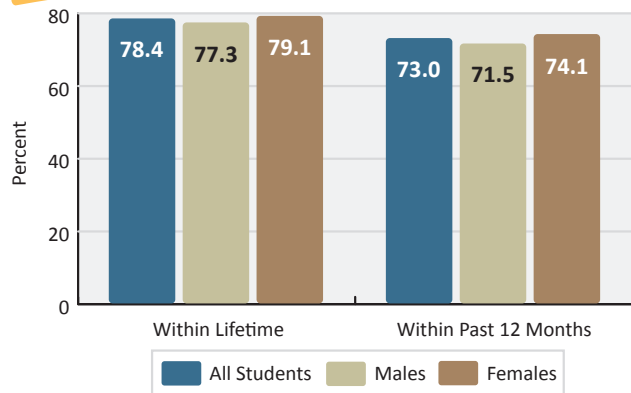
National Comparison

The majority of young adults in the United States are sexually active, with 68.1% of 18- to 19-year-old males, 75.2% of 18- to 19-year-old females, 84.4% of 20- to 24-year-old males, and 86.6% of 20- to 24-year-old females reporting they have had at least one sexual partner in the previous 12 months.¹⁷ Among 20- to 24-year-olds, 52.7% of males and 30.9% of females who have had sexual contact in the previous year used a condom during their last sexual contact.¹⁷ Due to a combination of behavioral, biological, and cultural reasons, sexually active young adults are at increased risk for acquiring sexually transmitted infections (STIs).¹⁸ The higher prevalence of STIs among young adults reflects multiple barriers to accessing quality STI prevention services, including lack of health insurance or other ability to pay, lack of transportation, and concerns about confidentiality.¹⁸ Among 20- to 24-year-olds, 7.1% of males and 13.4% of females report having a sexually transmitted disease other than HIV within their lifetime.¹⁷ Among all 15- to 24-year-olds, approximately 9.1 million cases of STIs and nearly 5,000 cases of HIV/AIDS are diagnosed annually.¹⁹

Female students attending the University of Minnesota–Twin Cities report slightly higher rates of sexual activity, both within their lifetime and within the past 12 months, compared to male students attending the university.

Sexually Active—Lifetime and Past 12 Months

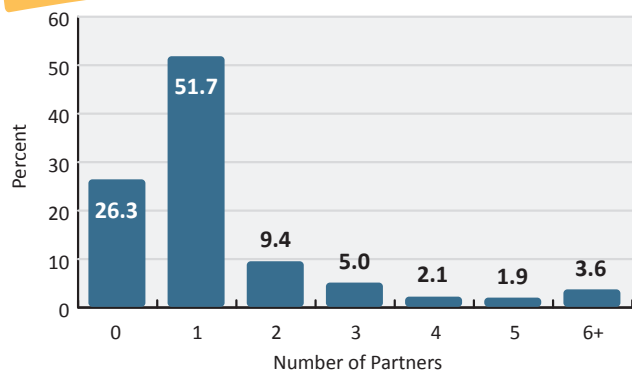
All Students by Gender



On average, UMTC students had **2.6** sexual partners over the past 12-month period. This average is based on the experience of all students, both those who were sexually active and those who were not sexually active. More than three out of four (**78.0%**) students report that they had 0 or 1 partner within the past 12 months.

Number of Sexual Partners—Past 12 Months

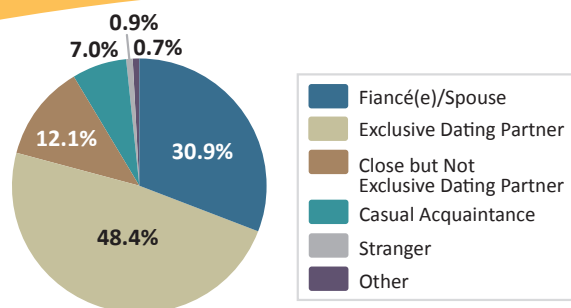
All Students



Among University of Minnesota–Twin Cities students who were sexually active within the past 12 months, approximately four out of five (**79.3%**) report that their most recent sexual partner was either a fiancé(e)/spouse or an exclusive dating partner.

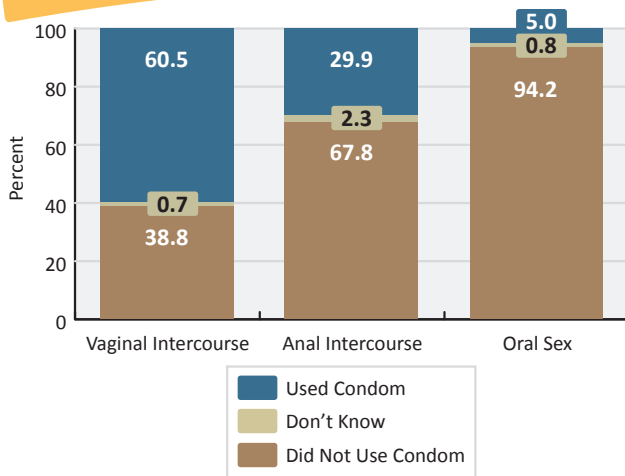
Most Recent Sexual Partner—Past 12 Months

Sexually Active Students



Condom Use

Sexually Active Students Within Lifetime
(Does Not Include Those Who Are Married or With a Domestic Partner)

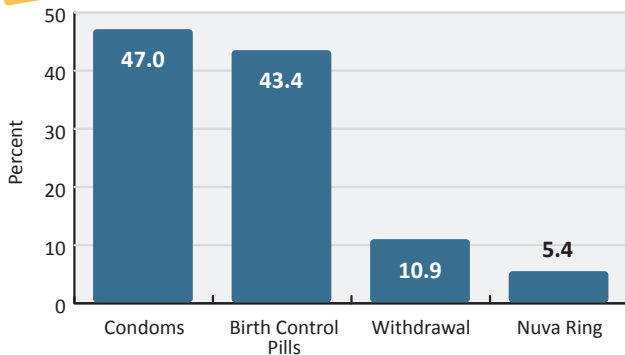


Among UMTC students sexually active within their lifetime, **60.5%** used a condom the last time they engaged in vaginal intercourse, **29.9%** used a condom during their last anal intercourse, and **5.0%** used a condom during their last oral sex. Percents are based solely on those who indicated they engaged in the activity.

Data analysis shows that of the 78.4% of University of Minnesota–Twin Cities students who report being sexually active within their lifetime, **93.7%** engaged in oral sex, **89.6%** engaged in vaginal intercourse, and **24.2%** engaged in anal intercourse.

Pregnancy Prevention Methods

Sexually Active Students Within Lifetime



The two most common methods that UMTC students report using to prevent pregnancy the last time they engaged in vaginal intercourse are condoms (**47.0%**) and birth control pills (**43.4%**). The withdrawal method is reported by **10.9%** of UMTC students. Other methods of pregnancy prevention reported by students are identified in the table below.

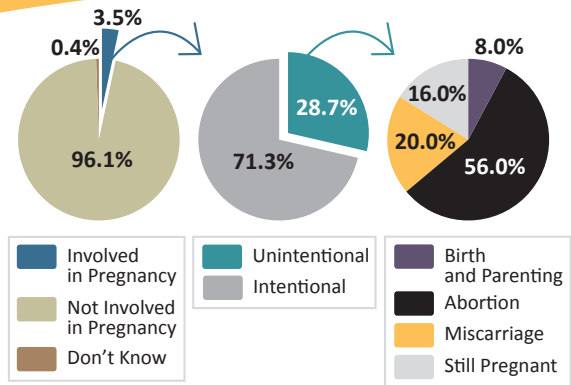
Among UMTC students, **3.7%** report not using any method of pregnancy prevention the last time they engaged in vaginal intercourse.

Type of Method	Percent Who Report Using Method
Intrauterine Device	3.9
Fertility Awareness	2.3
Emergency Contraception	1.9
Depo Provera	1.1
Diaphragm	0.4
Ortho Evra	0.3
Other	3.5

A total of **3.5%** of University of Minnesota–Twin Cities students has been involved in a pregnancy within the past 12 months. Of those involved in a pregnancy, **28.7%** state it was unintentional. Among the unintentional pregnancies, **56.0%** resulted in abortion, **20.0%** resulted in miscarriage, and **8.0%** resulted in birth and parenting.

Unintended Pregnancy Outcome—Past 12 Months

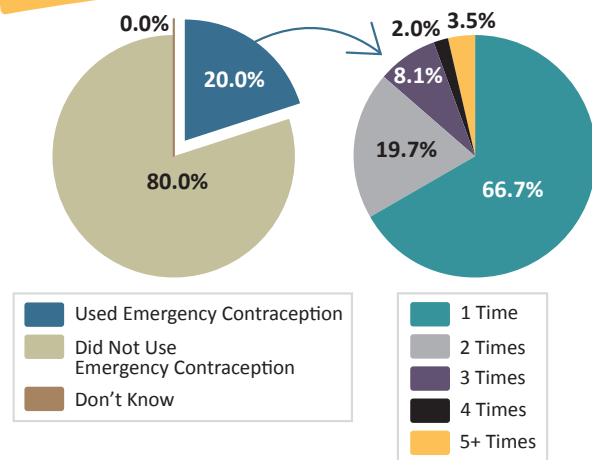
All Students



Analysis shows that within the past 12 months, **20.0%** of sexually active female students at the University of Minnesota–Twin Cities have used emergency contraception. Among those who used emergency contraception, **66.7%** have used it once, **19.7%** have used it twice, and **13.6%** have used it three or more times within the past 12 months.

Emergency Contraception Use—Past 12 Months

Sexually Active Female Students



Among UMTC students who have been sexually active within their lifetime, **9.3%** report being diagnosed with a sexually transmitted infection within their lifetime and **2.9%** report being diagnosed with a sexually transmitted infection within the past 12 months. Genital warts/HPV is the most commonly diagnosed sexually transmitted infection.

Sexually Transmitted Infection Diagnosis—Lifetime and Past 12 Months

All Students

Sexually Transmitted Infection	Percent Who Report Being Diagnosed	
	Within Lifetime	Within Past 12 Months
Chlamydia	2.7	0.7
Genital Herpes	1.5	0.6
Genital Warts/HPV	4.8	1.7
Gonorrhea	0.5	0.0
HIV/AIDS	0.3	0.1
Pubic Lice	1.2	0.1
Syphilis	0.2	0.0
At Least One of the Above Sexually Transmitted Infections	9.3	2.9

Legend: Within Lifetime (Dark Blue), Within Past 12 Months (Olive Green)

Implications

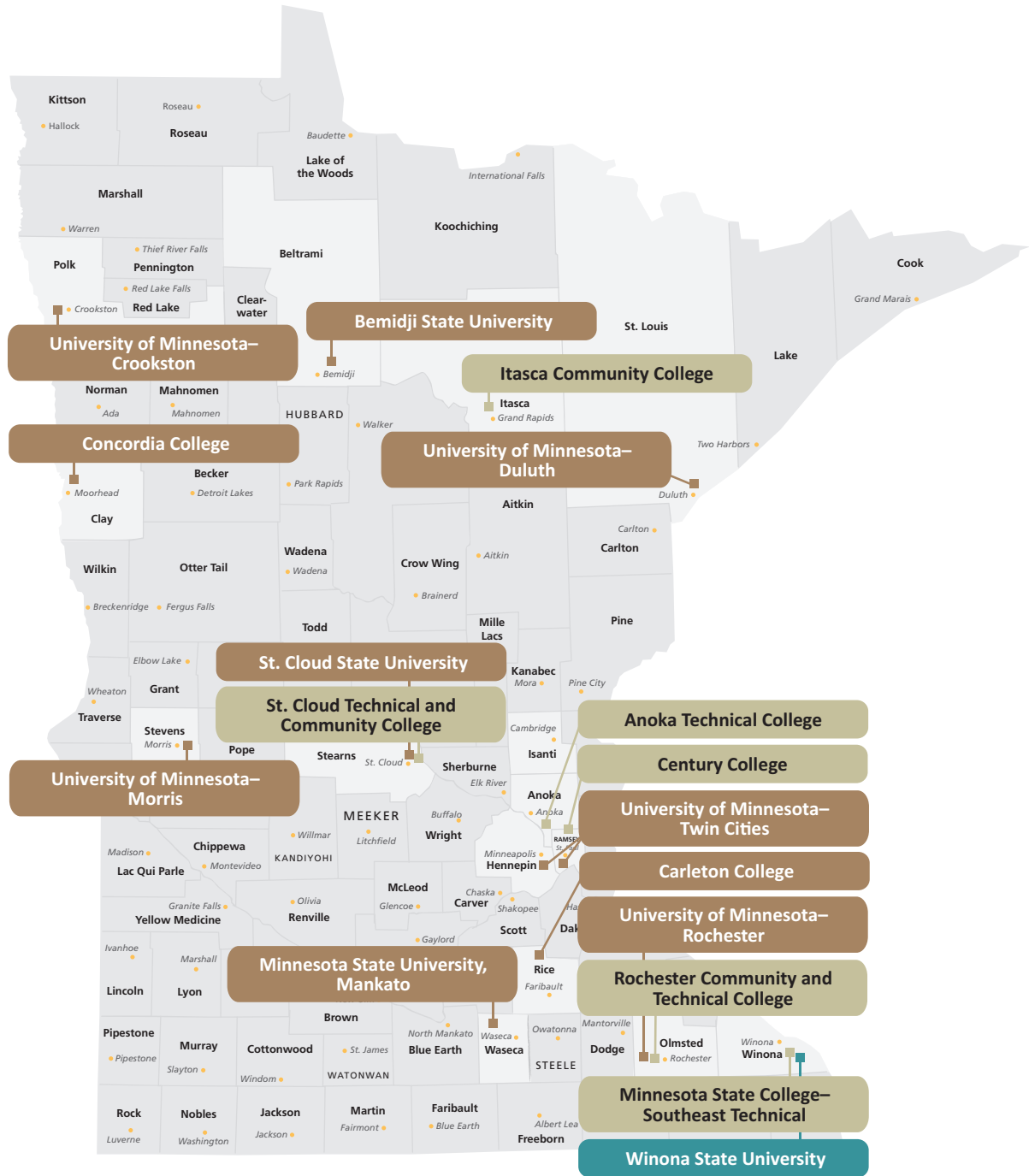
Healthy individuals make better students, and better students make healthier communities.

Results from the 2010 College Student Health Survey presented in this report document the health and health-related behaviors of students enrolled in the participating institutions. These data, therefore, offer a comprehensive look at the diseases, health conditions, and health-related behaviors that are impacting students attending postsecondary schools in Minnesota. Identification of these health-related issues is critical because the health of college students in Minnesota affects not only their academic achievement but also the overall health of our society.

While it is intuitively obvious that health conditions can affect academic performance, the link to overall societal health is more subtle but no less profound. Given that there are now more students enrolled in postsecondary institutions than in high schools, that college students help set the norms of behavior for our society and serve as role models for younger students, that college students are establishing and solidifying lifestyles and behaviors that will stay with them for the rest of their lives, and that obtaining a college degree is one of the major determinants of future health and economic status, the importance and the impact of the health of college students on our society becomes evident.

Appendix 1

Colleges and Universities Participating in the 2010 College Student Health Survey



Two-Year Schools	Location	Enrollment—Spring 2010*	Four-Year Schools	Location	Enrollment—Spring 2010*
Anoka Technical College	Anoka, MN	3,090	Bemidji State University	Bemidji, MN	6,562
Century College	White Bear Lake, MN	12,329	Carleton College	Northfield, MN	1,936
Itasca Community College	Grand Rapids, MN	1,466	Concordia College	Moorhead, MN	2,777
Minnesota State College—Southeast Technical	Winona, MN	2,581	Minnesota State University, Mankato	Mankato, MN	16,856
Rochester Community and Technical College	Rochester, MN	7,490	St. Cloud State University	St. Cloud, MN	20,479
St. Cloud Technical and Community College	St. Cloud, MN	5,451	University of Minnesota—Crookston	Crookston, MN	1,264
Schools with Two-Year and Four-Year Programs	Location	Enrollment—Spring 2010*	University of Minnesota—Duluth	Duluth, MN	9,794
Winona State University	Winona, MN	9,388	University of Minnesota—Morris	Morris, MN	1,507
			University of Minnesota—Rochester	Rochester, MN	387
			University of Minnesota—Twin Cities	Minneapolis, MN St. Paul, MN	45,881

*Includes full-time and part-time students.

Appendix 2

University of Minnesota–Twin Cities Survey Demographics Based on Student Response

	All Students
Average Age (Years)	24.1
Age Range (Years)	18-61
18-24 Years	66.0%
25 Years or Older	34.0%
Average GPA	3.42
Class Status	
Undergraduate–Enrolled One Year	9.4%
Undergraduate–Enrolled Two Years	12.6%
Undergraduate–Enrolled Three Years	16.5%
Undergraduate–Enrolled Four Years	12.7%
Undergraduate–Enrolled Five or More Years	9.4%
Masters, Graduate, or Professional Program	34.5%
Unspecified	4.9%
Gender	
Male	42.2%
Female	57.4%
Transgender/Other	0.2%
Unspecified	0.2%
Ethnic Origin	
American Indian/Alaska Native	1.1%
Asian/Pacific Islander	13.7%
Black–Not Hispanic	2.6%
Latino/Hispanic	2.8%
White–Not Hispanic (Includes Middle Eastern)	79.5%
Other	2.8%
Current Residence	
Residence Hall or Fraternity/Sorority	15.3%
Other	84.7%

Glossary

Current Alcohol Use

Any alcohol use within the past 30 days.

Current Credit Card Debt

Any unpaid balance at the end of the past month.

Current Marijuana Use

Any marijuana use within the past 30 days.

Current Tobacco Use

Any use of tobacco in the past 30 days. Tobacco use includes both smoking and smokeless tobacco.

High Credit Card Debt

A monthly debt of \$3,000 or more.

High-Risk Drinking

Consumption of five or more alcohol drinks at one sitting within the past two weeks for both males and females. A drink is defined as a bottle of beer, wine cooler, glass of wine, shot glass of liquor, or mixed drink.

Past-12-Month Alcohol Use

Any alcohol use within the past year.

Past-12-Month Marijuana Use

Any marijuana use within the past year.

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