

Memphis

| Year | Seed | Opponent | Seed | Score | Opp Score | OT | W | L | Round |
|------|------|--------------------|------|-------|-----------|----|----|----|-----------------------|
| 1955 | | Pennsylvania State | | 55 | 59 | 0 | 0 | 1 | Round of 32 |
| 1956 | | Oklahoma City | | 81 | 97 | 0 | 0 | 2 | Round of 32 |
| 1962 | | Creighton | | 83 | 87 | 0 | 0 | 3 | Round of 32 |
| 1973 | | South Carolina | | 90 | 76 | 0 | 1 | 3 | Sweet Sixteen |
| | | Kansas State | | 92 | 72 | 0 | 2 | 3 | Elite Eight |
| | | Providence | | 98 | 85 | 0 | 3 | 3 | National Semifinals |
| | | UCLA | | 66 | 87 | 0 | 3 | 4 | National Championship |
| 1976 | | Pepperdine | | 77 | 87 | 0 | 3 | 5 | Round of 32 |
| 1982 | 2 | Wake Forest | 7 | 56 | 55 | 0 | 4 | 5 | Round of 32 |
| | 2 | Villanova | 3 | 66 | 70 | 0 | 4 | 6 | Sweet Sixteen |
| 1983 | 4 | Georgetown | 5 | 66 | 57 | 0 | 5 | 6 | Round of 32 |
| | 4 | Houston | 1 | 63 | 70 | 0 | 5 | 7 | Sweet Sixteen |
| 1984 | 6 | Oral Roberts | 11 | 92 | 83 | 0 | 6 | 7 | Round of 64 |
| | 6 | Purdue | 3 | 66 | 48 | 0 | 7 | 7 | Round of 32 |
| | 6 | Houston | 2 | 71 | 78 | 0 | 7 | 8 | Sweet Sixteen |
| 1985 | 2 | Pennsylvania | 15 | 67 | 55 | 0 | 8 | 8 | Round of 64 |
| | 2 | UAB | 7 | 67 | 66 | 1 | 9 | 8 | Round of 32 |
| | 2 | Boston College | 11 | 59 | 57 | 0 | 10 | 8 | Sweet Sixteen |
| | 2 | Oklahoma | 1 | 63 | 61 | 0 | 11 | 8 | Elite Eight |
| | 2 | Villanova | 8 | 45 | 52 | 0 | 11 | 9 | National Semifinals |
| 1986 | 3 | Ball State | 14 | 95 | 63 | 0 | 12 | 9 | Round of 64 |
| | 3 | Louisiana State | 11 | 81 | 83 | 0 | 12 | 10 | Round of 32 |
| 1988 | 9 | Baylor | 8 | 75 | 60 | 0 | 13 | 10 | Round of 64 |
| | 9 | Purdue | 1 | 73 | 100 | 0 | 13 | 11 | Round of 32 |
| 1989 | 5 | DePaul | 12 | 63 | 66 | 0 | 13 | 12 | Round of 64 |
| 1992 | 6 | Pepperdine | 11 | 80 | 70 | 0 | 14 | 12 | Round of 64 |
| | 6 | Arkansas | 3 | 82 | 80 | 0 | 15 | 12 | Round of 32 |
| | 6 | Georgia Tech | 7 | 83 | 79 | 1 | 16 | 12 | Sweet Sixteen |
| | 6 | Cincinnati | 4 | 57 | 88 | 0 | 16 | 13 | Elite Eight |
| 1993 | 10 | Western Kentucky | 7 | 52 | 55 | 0 | 16 | 14 | Round of 64 |
| 1995 | 6 | Louisville | 11 | 77 | 56 | 0 | 17 | 14 | Round of 64 |
| | 6 | Purdue | 3 | 75 | 73 | 0 | 18 | 14 | Round of 32 |
| | 6 | Arkansas | 2 | 91 | 96 | 1 | 18 | 15 | Sweet Sixteen |
| 1996 | 5 | Drexel | 12 | 63 | 75 | 0 | 18 | 16 | Round of 64 |
| 2003 | 7 | Arizona State | 10 | 71 | 84 | 0 | 18 | 17 | Round of 64 |
| 2004 | 7 | South Carolina | 10 | 59 | 43 | 0 | 19 | 17 | Round of 64 |
| | 7 | Oklahoma State | 2 | 53 | 70 | 0 | 19 | 18 | Round of 32 |
| 2006 | 1 | Oral Roberts | 16 | 94 | 78 | 0 | 20 | 18 | Round of 64 |
| | 1 | Bucknell | 9 | 72 | 56 | 0 | 21 | 18 | Round of 32 |
| | 1 | Bradley | 13 | 80 | 64 | 0 | 22 | 18 | Sweet Sixteen |
| | 1 | UCLA | 2 | 45 | 50 | 0 | 22 | 19 | Elite Eight |
| 2007 | 2 | North Texas | 15 | 73 | 58 | 0 | 23 | 19 | Round of 64 |
| | 2 | Nevada | 7 | 78 | 62 | 0 | 24 | 19 | Round of 32 |
| | 2 | Texas A&M | 3 | 65 | 64 | 0 | 25 | 19 | Sweet Sixteen |
| | 2 | Ohio State | 1 | 76 | 92 | 0 | 25 | 20 | Elite Eight |